AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JANUARY 1, 1959

BOTANICAL
DEC 30 1958
MICHIGAN STATE UNIVERSITY
LIBRARY

Juniperus Rigida

SEEDS TREE—SHRUB—PERENNIAL FLOWER—GRASS—VEGETABLE

HERBST BROTHERS
SEEDSMEN, INC.
678 Broadway, New York 12, N. Y.

Correspondence with seed collectors and growers invited. Free catalog "Seeds for Nurserymen."

ATTEND YOUR STATE CONVENTION

Your participation at these meetings is the assurance of a state organization that will get the best state-wide program for you and your business.

The following representatives of our firm will be in attendance to help you plan your spring sales program. If you are not acquainted with these men, make yourself known and they will be happy to discuss your problems and your nursery stock needs.

Our complete Spring Wholesale Trade List will be mailed in late January. You will find this list most complete with those items of interest to you.

December 30	**CONNECTICUT NURSERYMEN'S ASSOCIATION** (Winter Meeting) A. Vanderschoot		
January 5 and 6	**OKLAHOMA STATE NURSERYMEN'S ASSOCIATION** Joe Abrahamson		
January 5 to 7	**EASTERN REGIONAL CONVENTION AT NEW YORK** A. Vanderschoot		
January 5 to 7	**INDIANA ASSOCIATION OF NURSERYMEN** Bert Welch		
January 7 to 9	**WESTERN ASSOCIATION OF NURSERYMEN** Don Moffet	Joe Abrahamson	Darrell Holmes
January 8	**MASSACHUSETTS NURSERYMEN'S ASSOCIATION** A. Vanderschoot		
January 8 to 10	**IOWA NURSERYMEN'S ASSOCIATION** Harley Deems	Don Moffet	Darrell Holmes
January 12 to 14	**ILLINOIS STATE NURSERYMEN'S ASSOCIATION** George Welch Don Moffet Darrell Holmes	Bert Lumry Paul Terry Harley Deems	Bert Welch Joe Abrahamson
January 14	**MARYLAND NURSERYMEN'S ASSOCIATION** A. Vanderschoot		
January 19 to 22	**OHIO NURSERYMEN'S ASSOCIATION** Bert Welch		
January 22 and 23	**NEW JERSEY ASSOCIATION OF NURSERYMEN** A. Vanderschoot		
January 23	**WESTERN NEW YORK NURSERYMEN'S ASSOCIATION** Bert Welch		
January 28 to 30	**MICHIGAN ASSOCIATION OF NURSERYMEN** Bert Welch		
February 3 to 5	**NEW ENGLAND NURSERYMEN'S ASSOCIATION** A. Vanderschoot		
February 17 and 19	**PENNSYLVANIA NURSERYMEN'S ASSOCIATION** A. Vanderschoot		
February 19 to 20	**MASSACHUSETTS NURSERYMEN'S ASSOCIATION** (Short Course) A. Vanderschoot		

One of America's Foremost Nurseries

Mount Arbor Nurseries

ESTABLISHED 1875 • SHENANDOAH IOWA •

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CIX, NO. 1 JANUARY 1, 1959

Founded 1904
With which was merged 1939
THE NATIONAL NURSERYMAN
Established 1893

Published on the
first and fifteenth
of each month by the
AMERICAN NURSERYMAN
PUBLISHING COMPANY
343 South Dearborn Street,
Chicago 4, Illinois
Telephone: WAbash 2-9011

Subscription Price:
$5.00 per year; outside
United States, $6.00:
Single Copies, 25c.

Advertising Rates
On Application.
For Closing Dates
See Next Page.

Second-class postage
paid at Chicago, Ill.

CONTENTS

Minnesota Group Adopts New Bylaws 7
Educational Program in Minnesota 8
100 Years of Nursery Business 9
By Bj. Loss
Need for Viability Law, Nebraska Meeting Topic 10
By James B. Elliott
Government Competition, Topic at Wisconsin Convention 11
By Doris Ann Krupinski
Varied Talks Heard at Wisconsin Short Course 12
By Doris Ann Krupinski
Full Program at New York Course 13
By Dr. A. M. S. Pridham
Election, Panel and Talks, Arizona Course Highlights 14
By Joseph Folkner
Plant Propagators Meet at Cleveland 15
By Fred C. Galle
Landscaping of Bank Quells Public's Protests 16
Plant Notes Here and There 72
By C. W. Wood

Editorial 6
—Happy New Year! 6
—Planning for Spring 6
—Mailing Lists 6
—Trade Relations 6

Coming Events 18
—Meeting Calendar 18
—Western Program 20
—Oklahoma Details 24
—Illinois Program Set 26
—N. L. N. A. Program 30
—Iowa Conference Agenda 30
—Massachusetts Event 32
—Ohio Short Course 32
—Connecticut Course 38
—Program at Nashville 40
—New Jersey Features 42
—Pennsylvania Program 44
—Southern Institute 46
—Northern Institute 48
—Colorado Course Date 50
—Dates Set in Idaho 50

This Business of Ours 52
—Late Frost 52

New Minnesota Mums 57
Earlimore Strawberry 57
Western Pennsylvania Meeting ... 58

Cover Illustration 60
—Juniperus Rigida 60

Florida Firm's Event 70
Conard-Pyle Officers 77

California Association of
Nurserymen 78
—Centinela Chapter 78
—San Diego Chapter Plan 78
—Los Angeles Chapter 78

Added Retail Report 80
Garden Editor Honored 80
Northwest Pear Decline 80
Oregon Notes 81
Quarantine 48 Revision 82

Obituary 95
—A. B. Cunningham 95
—Fritz Huber 95
—Julian Detmer 95
—Reginald C. Barrett 97
—Mrs. Josephine Brownell 97
—Mrs. J. Sidney White 97

New Jersey Citations 103
Town Tree Plan 118
Horton Addition 118
Texas Rule Retracted 119
New York Firm Expands 122

INDEX TO ADVERTISERS

Adair Co., Charles 98
Alanwold Nursery 40
Aldridge Nursery 72
Allen Co. 105
American Associated Companies 114
American Landscape School 120
Angelica Nurseries 38
Anna Nursery 68
Anthony Lake Nursery, Inc. 76
Ariens Co. 109
Armintrout's Evergreen Nursery 66
Armstrong Nurseries 30
Arp Nursery Co. 70
Atkin's Sons, L. 115
Ayer-Line Industries, Inc. 100

Bagatelle Nursery 20
Bailey Nurseries, J. V. 52
Ball, Inc., Geo. J. 45
Bartlett Mfg. Co. 104
Beardslee Nursery 59
Benedict Nursery Co. 80
Bentley's Hardy Plants 57
Berryhill Nursery Co. 66
Big River Nursery 72-75
Bird & Son, Inc. 21
Blackwell Nurseries 43
Blue Springs Nursery 76
Bobbink Nurseries, Inc. 44
Bolens Products Division 108
Bonzi Enterprises, Rudy 56
Bosley Nursery 54-56-64-67-68
Boulevard Nurseries 44
Boyd Nursery Co. 69
Bronx Refrigerating Co. 114
Brookfield Gardens 46
Brookville Nurseries 50
Brouwer's Nurseries 42
Brown Bros. Co. 48
Bryant's Nurseries 61
Buddingh InRow Weeder Co. 118
Bulk's Nurseries 36
Buntings' Nurseries, Inc. 74

Capitol Garden Farms 74
Carscallen Nursery Label Co. 121
Cartwright Nurseries 22-23
Chase Co., Benjamin 117
Chase Nursery Co., Inc. 70
Chick-a-dee Gardens 78
Clarke & Co., W. B. 79
Classified Ads 84-95
Cloverset Farm 105
Cole Nursery Co. 60
Columbia Nursery & Garden Supply Co. 102
Commercial Nursery 72
Congdon Nursery, Ivan R. 66
Congdon's Wholesale Nursery 36
Corliss Bros., Inc. 31
Corneli Seed Co. 113
Cottage Gardens 26
Courier Nursery Printers 116
Crumrine Nursery 54
Cumberland Valley Nurseries, Inc. 76
Cunningham Gardens, Inc. 65
Curtis Nurseries 20

Danegger's Hi-Way Nursery, Inc. 44
Darling Co., J. L. 117
Dayton Fruit Tree Label Co. 115
Deerfield Nurseries 44
Del-Mar-Va Nurseries 18
Descanso Distributors, Inc. 79
Diamond State Nurseries 38
Dible Nursery, Sam 44
Diehl's Nursery 58
Dirkmaat Azalea Farm 18
Doty & Doerner, Inc. 81
Dugan Nurseries, Inc. 54

Eagle Creek Nursery Co. 67
Eccles Nurseries 42
Edco Corp. 109
Elmer Roses 78
Evergreen Farm Nursery 52
Evergreen Nursery Co. 61
F. & F. Nurseries 50
Fafard, Inc., Conrad 108
Fairview Evergreen Nurseries 40
Filon Plastics Corp. 25
Flickingers' Nursery 48

Floc-Flo Engineering Design 110
Floral Gardens Nursery 60
Flower City Nurseries 71
Flower Grower Magazine 121
Flowerwood Nursery 74
Forest Nursery Co., Inc. 49
Forestview Evergreen Nursery 110
Foster Nursery Co., Inc. 66

Garden Shop, Inc. 118
Gardner's Nurseries, Inc. 40
Gatewood Christmas Tree Farms 55
Geiger Co. E. C. 110
Gilmore Plant & Bulb Co. 73
Gilson Gardens 55
Globe Nurseries 71
Gold Chestnut Nursery 75
Goochland Nurseries, Inc. 76
Grant's Nursery 57
Growers Exchange, Inc. 65
Gulf Stream Nursery, Inc. 17
Gutbrod Co., A. H. 121

Half Moon Mfg. & Trading Co. 121
Halpern Bros. 122
Hartigan, Philip 111
Hawkersmith & Sons Nursery 73
Heart of Missouri Poultry Farm 100
Herbst Bros. Seedsmen, Inc. 1
Hess' Nurseries 42
Hidden Valley Nursery 50
Hill Nursery Co., D. 124
Hillenmeyer Nurseries 71
Hill's Nursery 106
Hillside Nursery 48
Hobbs & Sons, Inc., C. M. 53
Holly Society of America, Inc. 46
Home Nursery 65
Homestead Nurseries 65
Horsford, William Crosby 44
Howard & Smith, Inc. 79
Howards of Hemet 5
Humphreys Landscape Service 77

Ilgenfritz Nurseries, Inc. 54
Illinois State Nurserymen's Assn. 18
Imperial Nurseries 44
Iron Mountain Evergreen Co. 64

Jackson & Perkins Co. 48
Jewell Nurseries, Inc. 67
Johnston, William A. 110

Kallay Bros. Co. 55
Keeler's Gardens 66
Keeling Nursery, Forrest 28-29-65
Keiding Paper Products Co. 27
Kelly Bros. Nurseries, Inc. 67
Kenyons Nursery 70
Kimbrew, E. V. 75
Kingwood Nurseries 61
Klyn, Inc., Gerard K. 57
Kraus Nurseries, V. 76
Krider Nurseries, Inc. 68
Krieger's Wholesale Nursery 77

LaBars' Rhododendron Nursery 42
Lake County Nurserymen's Assn. 64
Lake Sammamish Evergreen Nursery 80-112
Lansing Specialties Mfg. Co. 104
Leavenworth Nurseries 58
Leeland Farms 76
Leghorn's Evergreen Nursery Co., Inc. 44
Leonard & Son, A. M. 114
Lerio Corp. 114
Lincoln Nurseries 58
Lindig Mfg. Co. 116
Lindley Nurseries, Inc. 76
Lovett's Nursery, Inc. 44
Lustgarten, Baier 40

Malbis Nurseries 74-76
Maloney Bros. Nursery Co. 68
Martin Co., Inc., Joseph F. 64

Matthews Nursery 61
Maxwell, Bowden & Rice, Inc. 38
Mayhan Nursery 80
Maywood Rose Nursery 82
McGill & Son, A. 79
McIninch Greenhouses 57
Medical Service Corp. 101
Meehan & Sons, Thomas 116
Menne-Pot, Inc. 99
Mentor Rose Growers, Inc. 58
Meyer & Son Nursery, M. 60
Midvale Chemical Co. 107
Milton Nursery Co. 32
Mist-O-Gation, Inc. 122
Mitsch Nursery 80
Monarch Shingle Co. 100
Monrovia Nursery Co. 62-63
Montebello Rose Co. 81
Moorestown Gardens, Inc. 107
Moran, E. C. 79
Morning Star Nursery 75
Morse Co., A. B. 119
Mount Arbor Nurseries 2
Mount Hood Nursery 81
Mount Vernon Nursery 81
Musser Forests, Inc. 24
Myers, E. Normand 50

National Landscape Institute 110
National Rain Bird Sales & Engineering Corp. 108
Native American Holly Farms 44
Natorp Co., W. A. 60
Neosho Nurseries 56
New Amsterdam Import Co. 103
New England Tree Digger & Root Pruner Co. 112
Newport Nursery Co. 122
New Yorker Bag & Burlap Co. 117
Nollau Nurseries 60
Nursery Sales, Inc. 48

Offenberg Nursery Co., Paul 58
Ohio Nurserymen's Assn. 20
Oklahoma State Nurserymen's Assn. 18
Onarga Nursery Co. 61
Oregon Bulb Farms 82
Organic Gardening & Farming 111
Owen & Son, Inc., T. G. 41
Ozark Nursery Co. 74

Pacific Coast Nursery 82
Pacific Northwest Rose Nursery 80
Pallack Bros. Nurseries, Inc. 38-39
Panogen Co. 105
Patio Wood Products 106
Paw Paw Plant Co. 68
Pearce Seed Co. 68
Pedigreed Seed Co. 46
Peekskill Nursery 38
Peterson & Dering 19
Phytotektor 69
Pierson, Inc., A. N. 46
Pikes Peak Nurseries 46
Plantabbs Corp. 95
Plant Marvel Laboratories 119
Plumfield Nurseries, Inc. 55
Portland Wholesale Nursery Co. 80
Pratt Co. B. G. 101
Premier Peat Moss Corp. 95
Premier Southern Ticket Co., Inc. 114
Princeton Nurseries 50

Rambo's Wholesale Nurseries, L. J. 56
Ra-Pid-Gro Corp. 106
Ravensberg, Maurice C. 82
Reliance Fertilizer Co. 106
Reynolds, Harry H. 97
Rickert Nurseries 42
Roberts Nursery Co. 68
Robinson Sales Agency, E. D. 34-35-36
Rogers Nursery, R. H. 50
Rootspred 106
Rough Bros. 113
Ryan Landscaping Equipment Co. 105

S & W Farm Equipment, Inc. 33
Sandy Nursery 80

Scarff's Nursery, Inc. 55
Schroth's Nursery 51
Schumacher, F. W. 68
Semmes Nurseries 73
Sepers Nursery 48
Shade's Nursery 50
Shamburger Nursery, Carl 77
Shenandoah Nurseries 123
Shepard Nurseries 40
Sherman Nursery Co. 53
Sherwood Nursery Co. 79
Shore & Co., J. 100
Sneed Nursery Co. 71
Soil & Plant Research, Inc., Laboratories of 121
Somerset Rose Nursery, Inc. 48
Southern Nursery & Landscape Co., Inc. 71
Southside Nurseries, Inc. 70
Southwest Nurseries, Inc. 75
Sprayers & Nozzles 104
State College Laboratories 98
Steele's Pansy Gardens, Inc. 80
Stephens Nurseries 74
Sterling Bag & Burlap Corp. 121
Stoller & Co., Harry 119
Stribling's Nurseries 81
Summit Nurseries, Inc. 66
Suncrest Evergreen Nurseries 20
Supreme Electric Products Co. 114

Tankard Nurseries 76
Taubman & Co., Samuel 114
Tennessee Fabricating Co. 102
Tennessee Valley Nursery 70
Teufel, Alfred 80
Texas Nursery Co. 73
Thuemling Produce 114
Tingle Printing Co. 95
Tormey's 109
Towson Nurseries 46
Traas' Nurseries 68
Tree Moving Equipment Co. 98
Tritschler's Nursery 76
Tuckamony Nursery 105

Ullman Co. 112
Union Products, Inc. 114

Vanderbrook Nursery, Inc. 40
Vander Pol Nurseries 46
Van Engen's Kalamazoo Gardens Nursery 59
Van Veen Nursery 80
Vaughan's Seed Co. 103
Verhalen Nursery Co. 75
Verkade's Nurseries 40
Vermeulen & Son, Inc., John 20
Vosters Nurseries & Greenhouses, Inc. 64

W-W Grinder Corp. 120
Wade & Gatton Nurseries 66
Want Ads 96-97
Waters Rubber Stamp Co. 112
Waynesboro Nurseries 74
Wayside Gardens 68
Weeks Wholesale Rose Grower 79
Wells Nursery, Inc., James 42
Western Association of Nurserymen 20
Western Maine Forest Nursery Co. 48
Weston's Nursery 42
Whalley, J. B. 76
White Flower Farm 65
Whiterock Nurseries 67
Wight Nurseries, Inc. 70
Williams, Isaac Langley 38
Willis Nursery Co. 47
Willowbend Nursery 52
Wilson Nurseries, C. E. 74
Wirth, Hermann A. 116
Woodfern Nursery 44
Wood Products Co. 115
Wright, C. D. 67-68

York Modern Corp. 37

Zelenka Evergreen Nursery, John G. 54

Forms for the February 1 issue will close Friday, January 9.

Forms for the February 15 issue will close Friday, January 23. Mail copy to arrive at Chicago by these dates—no later!

...and which way are YOU going?

Howards of Hemet ships roses almost *anywhere!*

Going up, friend? Or down, perhaps? Never mind. Howards of Hemet has friends in both places. But right now, our real interest is shipping bareroot roses EAST—pre-paid accumulated shipments to 18 cities throughout the U.S. We pay freight and refrigerator storage for a reasonable period of time. No reason distance should keep you from offering your customers the ultimate quality in bareroot roses from California's finest growing fields. This cold storage warehouse set-up makes Howards as handy as your own backyard.

In addition to our own high-flying originations like Angel Wings, Tiffany, Tom Tom and Texan, we can offer you top quality roses in all the popular patented and non-patented varieties. This includes hard-to-get new roses and All-America Winners. Let's make it one "H" of a year. Howards, that is. Send for our current 1959 Price List.

"Seasoned Rosebushes" for the wholesale trade exclusively.

HOWARDS of HEMET
"Seasoned Rosebushes"
HEMET • CALIFORNIA

AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

FRED H. KILNER
Managing Editor

I. G. MOORE
Associate Editor

C. A. BRADY, Jr.
Advertising Manager

Editorial

Happy New Year!

In contrast to the feeling of uncertainty as to the severity and extent of the recession under way 12 months ago, a positive spirit of optimism prevails at the opening of 1959, supported by the speedy and decided recovery progress of the past few months of the old year. Most industries have shared in the upturn, and even the more conservative forecasters agree that the coming year gives indications of continued improvement and a greater degree of prosperity than the year past.

Inasmuch as nurserymen enjoyed a good sales year in 1958 and in many areas new records were marked up, the spirit of optimism throughout this industry is strong. That has already been indicated in these pages by the reports on autumn sales and comments as to the outlook for spring. So long as public prosperity and a high level of consumers' income supports the home-building boom and encourages the ever-spreading hobby of gardening, nurserymen can look forward to an expansion of their business, and many are already making preparation for it. Industrial landscaping and highway planting will also continue to exert an influence on nurserymen's sales.

The forecasts of businessmen and the year-end prognostications of economists, which have filled the public press, need not be recounted to support the foregoing optimistic statements. Foreign problems which face the nation and severe wintry weather which presents local problems do not deter Americans in general and nurserymen in particular from feeling good reason to celebrate the incoming of a new year. Sharing the sentiment of its friends that compose the industry, the staff of the American Nurseryman warmly adds its wishes to all of them for a Happy and Prosperous New Year.

The Mirror of the Trade

PLANNING FOR SPRING

Though there may be some snow on the ground in your locality, it is not too early to begin planning now for developing spring sales. In the southernmost states the planting season will be upon nurserymen all too soon, though it still appears distant to those in the northern tier of states where the fall of snow is measured in feet instead of inches.

Even where there is, perhaps, still plenty of time, preliminary thoughts as to advertising or other means of reaching the public cannot be started too soon, for it requires more time than might be thought to develop final plans, especially if these phases of business have been neglected hitherto.

In these days of stiffer competition, from within the industry and without, some form of advertising seems essential. For the strictly local retail enterprise, a direct-mail list of customers and prospects is almost essential. The nurseryman may develop his own, or in some communities he can buy or rent a list from an addressing firm, which extends its services to retailers in other, non-competitive lines.

If a newspaper or local weekly blankets the locality without too much waste or expense, the nurseryman's job is easier, though he may find the direct-mail list desirable to supplement his advertising efforts otherwise. Whether he issues a price list or occasional circular depends upon his program.

Whatever the form of sales development projected, there remains the task of timing the procedure so that it may be adjusted to weather conditions and also hit the public audience at the most effective time. This is most important, and a program suitable for final adjustment in this way requires thorough advance preparation in other respects.

MAILING LISTS

Some nursery firms continue to send their catalogs to persons who may have requested them years before or who may even have made a small or large purchase in some year of the past. Why they continue to mail their catalogs to persons who have never made a purchase or who have made none in late years is a big question. This is particularly true in view of the rising costs of printing and postage.

Does not the expense of mailing catalogs more than exceed what would be the cost of checking mailing lists and removing such names? Or is the management too negligent in keeping the necessary records, or too busy, or too lazy to make the necessary changes? What is the answer?

TRADE RELATIONS

At the beginning of the new year, a time celebrated for its resolutions, each nurseryman might well review his attitude toward his industry at large and his local community as a whole. Too often they are overlooked in the preoccupation with business success and personal profit or advancement. Such preoccupation is, of course, almost necessary to the survival and success of a business enterprise, which will make the matters of trade and public relations important.

It is not enough to enroll as a member in a local or state association upon the urgings of others. To gain benefit to the fullest degree, one should participate in the interests of the organization and attend its meetings. Thereafter there may be opened avenues in the industry which broaden the scope, as well as the vision, and the advancement of the individual.

One's concern with public relations does not include merely the contact with customers and service to them. It embraces the broader aspect of the individual's place in the community. In many places throughout the country local nurseries have made a definite impression upon the local community, either in the aspects of its gardening, in the phases of its beautification or in other ways. Such impression is not entirely dependent upon the size of the nursery, although size is one measure of success that influences the local effects of the nursery otherwise. Business policy, the character of the management, the quality of its stock and service and the spirit of its employees are all forces in shaping the influence of a business enterprise on the community in which it is located.

Anyone who does not understand the tenor of this paragraph is in need of travel, observation and broader vision. With them will come understanding of the reasons for the review of one's attitude toward the industry and towards one's community which is recommended.

Minnesota Group Adopts New Bylaws

Educational Program, Highway Planting Report, Highlights of St. Paul Convention

Attendance at the annual convention of the Minnesota State Nurserymen's Association, held December 1 and 2, at the Lowry hotel, St. Paul, was 168, substantially increased from that of a year ago. Contributing to a successful meeting was a well-rounded educational program. Increased profits were stressed in talks on consumer motivation, public relations and newspaper advertising. Ideas and trends in landscaping were presented by a west coast landscape architect. Of much interest to the Minnesota nurserymen was a talk on the history of the nursery industry of the state. Various reports on plant pests, chemical weed control, new plant introductions, dwarf fruits and crab grass control all provided much helpful information.

At the business session a new set of bylaws was adopted after much discussion on membership regulations. It was voted that active membership in the Minnesota State Nurserymen's Association will be limited to those firms or individuals who are actively engaged in the growing, landscape planting and/or landscaping designing, or merchandising of nursery stock and currently pursuing that work and deriving the major part of their living from it. Opinion was expressed that the rules should be relaxed to allow those persons into active membership who merchandise garden supplies but do not derive the major portion of their livelihood from selling nursery stock. But considerable opposition was expressed toward this view, as it was felt that eventually fly-by-night operators would be accepted.

Heard at the business meeting was a comprehensive report on highway beautification resulting in the adoption of a resolution urging the Minnesota state highway department to abandon the present practice of receiving bids for planting as a part of the original contract for construction of interstate highways and adopt a policy of requesting separate bids for the execution of this work at a time when construction of these routes has been substantially completed.

At the final session a resolution was passed that the Minnesota State Nurserymen's Association go on record for restrictive legislation on the control of billboards.

Election

Elevated to the position of president of the Minnesota State Nurserymen's Association was Lawrence Bachman, Bachman's, Inc., Minneapolis. The new vice-president is Donald Wedge, Wedge Nursery, Albert Lea. Remaining as secretary-treasurer is Edward Reid, Park Nurseries, St. Paul. Elected to the Minnesota Nurserymen's Research Corp. was Ken Law, Jewell Nurseries, Inc., Lake City.

Elected to the executive board were Leo Snyder, Fillmore County Nursery, Canton; Terry Cashman, Cashman Nursery, Owantonna, and re-elected was Keith Law, Law's Valley View Nursery, Hastings.

Delegates to the annual convention of the American Association of Nurserymen chosen to represent the 19th chapter were Lawrence Bachman and holdover delegate Russell Zakariasen, Homedale Nursery, Hopkins.

The convention was called to order Monday morning, December 1, by Kimball Andrews, Andrews Nursery Co., Faribault. Delivering his president's address he explained the services which the A. A. N. provides to its members and showed examples of pamphlets and bulletins released by the national association. If a member obtains just one or two good ideas as a result of membership in this organization, he will be repaid for the cost of the yearly dues, believed President Andrews.

Highlighting the morning program was a talk, entitled "Design for Outdoor Living," delivered by C. Mason Whitney, president, California Association of Landscape Architects. A summary of his remarks is printed elsewhere in this issue.

Captivating the audience at the noon luncheon was the speaker, Bj. Loss, Lake City Nurseries, Lake City, with a humorous and informative talk, entitled "100 Years of Minnesota Nursery Work." The 78-year-old nurseryman recalled much of the early history of the industry in the state, citing the founding dates of many of the older Minnesota nurseries. Mr. Loss' talk appears elsewhere in this issue.

A review of potential plant pests in Minnesota was presented by William M. Anderson, acting director, bureau of plant industry, to start the Monday afternoon program. He related that a number of insects have appeared in the state in the past few years, but none has been of potential danger to the nursery industry. There are many pests in quarantined areas in other states which could spread to Minnesota, he cautioned. Japanese beetles have moved westward, now being found in southeastern Iowa and near the Chicago area in Illinois. The bureau, said Mr. Anderson, is interested in control before the pests reach the state, and good work in this direction is being done. Measures to control spread of the gypsy moth are also eled as far west as Lansing, Mich. being carried out. This pest has traveled as far west as Lansing, Mich.

[Continued on page 61]

Newly elected officers of the Minnesota State Nurserymen's Association: Left to right, Donald Wedge, vice-president; Lawrence Bachman, president; Kimball Andrews, retiring president, and Edward Reid, secretary-treasurer.

Featured speakers at the annual convention of the Minnesota State Nurserymen's Association annual convention: At left, C. Mason Whitney, California landscape architect; at right, Richard P. White, A. A. N. executive vice-president, and R. L. Smith, chairman, marketing department, Syracuse University, Syracuse, N. Y.

Educational Program in Minnesota

Hear Talks on Landscaping, Consumer Motivation and Advertising at Convention

Educational talks were one of the highlights of the annual convention of the Minnesota State Nurserymen's Association held December 1 and 2 at the Lowry hotel, St. Paul. The subjects included landscaping, consumer motivation, public relations and newspaper advertising and were discussed by experts in their field.

Appearing on the Monday morning program, December 1, was C. Mason Whitney, president, California Association of Landscape Architects, with a landscape architecture office at Berkeley, Calif. He called attention to the fact that landscape architects, landscape contractors and nurserymen are licensed under separate acts in California.

Discussing the modern trends in landscaping in California, he stated that homeowners are interested in low-maintenance gardens. Many gardens have patio areas with shade makers which let in the morning sun but not the afternoon sun. Play areas are designed so they can be converted into planting areas later. Mr. Whitney related that there is a strong demand for swimming pools in California.

There is a trend toward good-size utility areas and facilities for housing garden tools, lumber, pots, etc. The lines of access to a house are kept to a minimum; many houses are constructed without long driveways or front walks.

Mr. Whitney believed that lawns should be well defined by redwood or brick paths. These edgings, which can be as small as four or eight inches in width, keep grass trimming needs to a minimum. Garden lighting is being used to a great extent, but the trend is for subdued effects.

Design Elements

Mr. Whitney, discussing the elements of design in the garden, stated there should be rhythm but not monotony. He favored occult rather than symmetrical balance in design. Included in the garden should be a point of interest, such as a swimming pool, a garden bench or a tree. He believed the texture and color of the plants should be contrasted.

The average family in California lives in one location from five to seven years, related Mr. Whitney. New plantings that will take years to develop are not desired. The homeowners purchase larger stock, and the plants are placed closer together. Mr. Whitney explained that he uses boxwood hedges, not just planting them in a long, narrow strip, but using them in a bold mass planting. Californians, Mr. Whitney has found, desire cut flower beds in their gardens.

Exposed aggregate concrete walks and patios are used, with pebbles in the paving. Crushed granite, rolled out, wet and rolled again is also employed. Much redwood is used in California, he added.

There is a general wish for each garden to be unique. Many boxed or tubbed plantings are placed in the garden areas, as these are easy to maintain.

Mr. Whitney showed projections of landscape plans submitted by several members of the Minnesota State Nurserymen's Association and offered constructive criticism. He advocated using a curved path to the entrance of a house so that when the front door is opened a person will not see into the house from the street. The curved path also provides a leisurely walk to the front door. Mr. Whitney believed that an interesting pattern should be created in the garden to contrast with the lines of the house. Laying out plantings simply to occupy the corners of a lot is not sufficient.

He suggested planning a driveway so that passers-by cannot look into the garage when the door is open. This can be done either architecturally in the planning of a house or by the landscape planting.

Commenting on his series of colored slides showing landscape plantings in California, Mr. Whitney pointed out that newer homes do not have sidewalks, but rather landing strips next to the street where a person can step out of his car. Where water scarcity is a problem in California, Mr. Whitney related that gravel or crushed rock and concrete are used instead of grass. The trend is apparent, he said, to use small water fountains which repump water for continuous flow.

Much use is made of fences, path-

[Continued on page 52]

100 Years of Nursery Business

By Bj. Loss

Nurserymen are individualists, far more so than in any other industry I know. They are optimistic, and must be so because of the nature of their business. When the 1932 depression struck, the nursery business survived it better than most industries, and that must be considered a credit to the men who are in it. This survey of the Minnesota nursery industry will be divided into three sections. First, the chronology of nurseries in Minnesota; second, the evolution in the material produced, and third, the revolution in distribution.

First Establishments

The first nursery in Minnesota of which we have any record was established in 1857 and was called the Groveland Garden & Nursery. It was located somewhere between St. Paul and St. Anthony between 1854 and 1856. (Shortly before delivering this address at St. Paul, it was called to my attention that L. M. Ford started a nursery near St. Paul in 1851.)

A Mr. Brown started a nursery near Faribault in 1865 and then sold out to Mr. Brand in 1868.

It appears from what I have been able to learn that the Brand Nursery, established by Oliver F. Brand in 1867, was the first Minnesota nursery of any consequence. Archie Brand succeeded his father, and upon his death the business was sold to the present manager, R. W. Tischler. The Brand Nursery specialized in the later years in peonies and lilacs and became nationally known for this product.

In 1868, the Jewell Nursery was established by Dr. Jewell, who originally settled at Rochester and later moved to a 10-acre plot at Lake City. The buildings that he built there are still standing, and the nursery is now managed by William Lindmeier, an attorney at Lake City.

In 1869, J. W. Harkness established a nursery at Faribault. Later, in 1871, it was taken over by John D. Andrews. The three sons, Jack, Howard and Rufus Andrews, succeeded their father. The nursery at the present time is managed by the two sons of Jack Andrews, Kim and Dick. It is probably not unfair to say that the Andrews Nursery has had more influence on nursery business in Minnesota than any other nursery. Andrews Nursery, like many others, felt they had to change their mode of distribution and are at the present time conducting a garden center business, which, as I understand, is very successful.

The Hoyt Nursery was started in 1870 by Terrel Hoyt. It was sold in 1924 to Jack Juehl and in 1953 to Chuck Engel. The Rose Hill Nursery was established by Charles Hawkins, grandfather to the present manager, in 1874. Clarence Wedge established the Wedge Nursery, which is now managed by Robert Wedge, in 1876. The original name of the Wedge Nursery was Echo Farm Nursery. The name was later changed to Northwest Nursery, and then to Wedge Nursery. The Fruit Breeding Farm was opened in 1878 at Excelsior.

In 1887, E. J. Cutts at Howard Lake started the Howard Lake & Victor Nursery, which was later continued by W. H. Eddy and is now conducted by William Eddy, Jr.

The Mitchell Nursery was established by Delbert Mitchell on two city lots in 1895. Leslie Mitchell is the present manager.

In the same year, Holm & Olson was established. E. W. Reid was the first manager, and the nursery is now managed by his grandson, Ed Reid. This nursery was probably an outgrowth of the L. L. May Nursery and was the first of the so-called landscape nurseries established in Minnesota.

Bj. Loss, Lake City Nurseries, Lake City, Minn., who delivered a talk on the history of the Minnesota nursery industry at the annual state convention.

Clinton Falls Nursery was founded in 1898 by Thomas E. Cashman. Later his brother, Mike Cashman, joined him. After a few years the name was changed to Cashman Nursery. It is now managed by Terry Cashman, son of Thomas E. Cashman.

20th Century

The Cutting Nursery was started by Fred Cutting in 1901. In 1907, the J. V. Bailey Nursery was established by J. V. Bailey and is now managed by his two sons, Gordon and Vincent Bailey. Louis Wesely organized the Owatonna Nursery Co., now managed by Otto Nietschke, in 1909. Two years later, the Fillmore County Nursery was established by George S. Snyder, and is now managed by his four sons.

The Swedberg Nursery, Battle Lake, and the Killmer Nursery Co. were opened in 1915 and in 1918, respectively.

In 1920, the first exclusive wholesale nursery in Minnesota was established by Frank Seifert. The Lake City Nurseries, Inc., were started in 1922 by Bj. Loss. The firm is now managed by Harry Francis. Mr. Coupanger established the Elmore Nursery in 1923, and it is interesting to note that he was only 18 years old at the time. Peters Nursery, Sherburn, was founded by its present manager, Paul Peters, in 1926.

There are many other nurseries in Minnesota. As an indication of the growth of nurseries in the state, the nursery inspection office told me that in 1903 there were 26 nurseries listed and in 1957 there were 71. Space does not permit me to list all of the nurseries, so I have tried to confine this information to the most important and largest nurseries. Neither can I tell the many interesting stories of the men who were responsible for the establishing of the various nurseries.

But I cannot conclude this chronology without mentioning such men as Thomas E. Cashman, J. V. Bailey, Clarence Wedge, J. M. Underwood, Jack and Howard Andrews and E. C. Hilborn, Valley City, N. D. who contributed much to the ethical education, the friendly cooperation and the idealism that have made the

[Continued on page 104]

An address, "100 Years of Nursery Business in Minnesota," delivered by Bj. Loss, founder of Lake City Nurseries, Inc., Lake City, Minn., at the annual convention of the Minnesota State Nurserymen's Association held December 1 and 2 at St. Paul.

Need for Viability Law, Nebraska Meeting Topic

By James B. Elliott

Over 65 persons attended the annual convention of the Nebraska Association of Nurserymen December 8 and 9 at the Cornhusker hotel, Lincoln. Lloyd Marshall, Marshall Nurseries, Arlington, was elected president. Duane Speidell, Nebraska Nurseries, Lincoln, vice-president, and J. B. Elliott, Plumfield Nurseries, Fremont, was re-elected secretary-treasurer.

A summary of A. A. N. activities was presented. Vincent Bailey, J. V. Bailey Nurseries and A. A. N. director of region 4, outlined the benefits derived by its members and how the national association benefited the nursery industry through the legislative and promotional programs.

Vernon Marshall, a past president of the A. A. N., reported the new interstate highway program is considering the use of plant materials for functional purposes. This was initiated through the consistent efforts of the A. A. N.

Legislative Action

The legislative committee chairman, Lloyd Moffet, Fremont, reported several letters had been written to Congressmen the past year. He stressed that action is urgently needed in the field of reduced government spending, particularly in those areas where there is competition with private enterprise. He labeled such projects as costly to the taxpayers and unfair to business.

Supposedly, government nurseries can sell for cost or give-away prices, because they pay no taxes; consequently they do not have the same production costs as private enterprise. He urged the membership to take an interest in legislative matters and to write their representatives.

For the public interest, a viability law was discussed in detail, and consideration was given to have one enacted on a state basis. Much concern was expressed because individuals have been selling dead or near-dead nursery stock in the past. It is known that much of this stock was of good quality at one time, but had deteriorated from lack of proper handling and storage facilities. It was concluded that marketing of such stock is a bad reflection on the nursery industry. The legislative committee was instructed to proceed at once to seek a viability law for Nebraska.

Max Harding, a Lincoln attorney, discussed secondary boycotts and their effects. He said that this is the most vicious weapon ever used on business by unions, outside of physical violence. He spelled out the loopholes in the Taft-Hartley act and gave case histories of the effects of boycotts on businesses.

Some union's demands are unreasonable, he continued, forcing foreclosures and not acting for the public interest. He warned businessmen to be alert and if forced into signing a contract, to give this fact plenty of publicity. At the same time, competitors should assist by combining their efforts.

New officers of the Nebraska Association of Nurserymen: Left, James B. Elliott, re-elected secretary-treasurer, and Lloyd Marshall, president.

Landscaping

Modern landscape design is for people and outdoor living and not for a display of an array of plants, emphasized Prof. L. R. Quinlin, Kansas State College, Manhattan, Kan. He said home designers are trying to create an interrelation between the indoors and outdoors by the use of a large window adjacent to a terrace enclosed by hedges and shrubs, which creates an interesting place for living.

To design the garden properly, the architect must know the likes and dislikes of his client. Simplicity rather than formality is the new keynote. He cautioned against introducing too many different plants, as repetition is the strongest element of design.

The importance of climate control should be considered. Plants can serve as windbreaks for winter protection and with water panels for summer coolness. He pointed out that summer air moving across such agents will be as much as 15 to 20 degrees cooler than air from a concrete surface. Such planning benefits both people and plants.

In the use of plant materials, Professor Quinlin warned the nurserymen not to get into a rut, but to vary plants. The outline, or form, of plants is more important than their color and texture. It is necessary to be familiar with the soil and climatic requirements of plants, he said.

Speakers at the convention of the Nebraska Association of Nurserymen: Left to right, L. R. Quinlin, Vincent Bailey and Vernon Marshall.

Government Competition Topic at Wisconsin Convention

Newly elected officers of the Wisconsin Nurserymen's Association: Left to right, standing, Gordon J. Suthers, director; Kenneth W. Greaves, president; Ralph Petranek, vice-president, and Don Groth, director; seated, Thomas S. Pinney, secretary-treasurer.

By Doris Ann Krupinski

Government competition with the nursery industry was the subject of heated discussion at the annual business meeting of the Wisconsin Nurserymen's Association December 3 and 4 at the Hotel Schroeder, Milwaukee, where the following officers were elected for the coming year: Kenneth W. Greaves, Greaves Landscape Nursery, Milwaukee, president; Ralph Petranek, Brown Deer Nurseries, Milwaukee, vice-president, and Thomas S. Pinney, Evergreen Nursery Co., Sturgeon Bay, (re-elected) secretary-treasurer. New directors elected to serve 3-year terms are Donald Groth, Milwaukee landscape gardener, and Gordon J. Suthers, Suthers Moundview Nursery, Platteville.

Two specific aspects of government activity in the nursery field caused the greatest concern at the meeting: The fact that the state conservation department continues to send trees earmarked for reforestation to commercial Christmas tree growers and the fact that Milwaukee county intends to construct an extensive nursery and greenhouse range to grow material for its park system.

Nurserymen in the Milwaukee area felt the latter plan would hurt them in two different ways, by increasing their county tax burden on the one hand and by competing with them at unfair price levels on the other hand.

State of the Industry

Association Secretary Thomas Pinney, in his annual state of the industry message, warned the group of the dangers of such socialistic trends. "Government is expanded on precedent," he said. "While this matter of the planned Milwaukee county nursery may seem like a purely local matter, actually it affects everyone in the industry by setting a dangerous precedent."

The association appointed a committee to study and take action on the problem, with the cooperation of the Wisconsin-Upper Michigan Florists' Association and the Master Landscape Gardeners' Association. Ralph Petranek is chairman, and he will be assisted by Tom Lied, Delmar Lied Nursery & Landscaping, Milwaukee, and Charles Hawks, Hawks Nursery Co., Wauwatosa.

The matter of the Christmas tree giveaway, said Secretary Pinney, has the greatest effect on those nurserymen growing lining-out stock, but it gnaws at the price structure of all nursery stock. He told of unsuccessful efforts to get the conservation department to make surveys to see how the trees are used.

Such a survey, he said, would be particularly revealing in Milwaukee county, where 50,000 trees were sent for reforestation, despite the fact that the county is mainly residential and industrial.

Price Levels Lag

Mr. Pinney also discussed price levels in the nursery industry, asserting that they should be raised at once. While prices in other lines edged slowly upward in the 40's, nursery stock prices should have been raised a painless 5 per cent each year instead of holding firm, he said. Growers who keep accurate records of their costs realize that a considerable price increase is not only justified but necessary if they are to make any profit at all.

This may not be easy, Mr. Pinney continued, in the face of modern merchandising trends. Every department store, fruit market and grocery is selling nursery stock on a small markup, depending on volume for their profit.

The bona fide garden store is now in the same predicament as was the neighborhood grocer when the supermarkets moved in. Those who failed to keep pace soon fell by the wayside. These new outlets for nursery stock are going to remain in business and, in fact, increase their operations. Some department stores are now even doing landscape work.

Mr. Pinney was optimistic on one point, however. He said that mail-order nursery stock is now less com-

[Continued on page 100]

Owen B. Schmidt, Narberth, Pa., who talked on unusual uses of plants in landscape work at the Wisconsin nurserymen's convention.

Speakers at the short course held as part of the program of the convention of the Wisconsin Nurserymen's Association at Milwaukee: Left to right, Prof. George Ziegler, Prof. O. B. Combs, Dr. Reid A. Bryson and Marvin Beatty.

Varied Talks Heard at Wisconsin Short Course

By Doris Ann Krupinski

A short course was a feature of the afternoon program on the first day of the convention of the Wisconsin Nurserymen's Association held December 3 and 4 at Milwaukee, Wis. In addition to the staff members of the University of Wisconsin who participated in this feature, a luncheon speaker and a landscape specialist from the east contributed practical talks. Merchandising, weather facts, soil management, lawn seeds and landscaping were subjects covered by these speakers on the two days. Summaries of their comments follow, supplementing the general report of the program appearing elsewhere in this issue.

Eldon Hendrickson, of the Milwaukee store of Sears, Roebuck & Co., explained at the Wednesday noon luncheon "How Sears Does It." Mr. Hendrickson reminded his audience that the Sears operation is strictly a merchandising one, so that his acquaintance with nursery stock is only with the merchandising phase. He felt, however, that growers could improve their operation by using some of Sears' methods.

The main guide used in ordering nursery stock for sale is a history of each item sold. Before an order is placed for the selling season, the buyer looks over these records to see how many items sold last year and then decides what percentage of this number he will stock with his initial order. Usually about 60 to 66 per cent is ordered. After a week or two of sales, a spot check is made to see how many of each item have been sold. By checking with the previous year's records, the buyer can tell whether sales are running behind or ahead and place another order accordingly.

Must Move Stock

If sales are running dangerously far behind on any item, the price is reduced at once, even though it is the middle of the selling season. The theory is that it is better to take a small loss and "get out from under" while the stock is still fresh, rather than wait until the end of the season and risk a big loss from dumpage.

Sears' entire operation, said Mr. Hendrickson, is run on this "time basis." The amount of time an item sells well is calculated before it is placed on sale, and this schedule is adhered to, to make every inch of selling space count. "We would rather run a little short than have something left over," Mr. Hendrickson declared. He admitted that it was a delicate matter to strike a balance between how many sales one is willing to lose because he is out of stock and how much stock he is going to have left over after the season.

Mr. Hendrickson advocated a not-too-large markup on nursery stock, because merchandise is easier to sell at low prices and volume makes up the difference. He warned his audience not to make the mistake of thinking that it could put percentages in the bank.

Weather Patterns

A thought-provoking speaker led off the Wednesday afternoon program with a discussion of "Where Is Our Weather Going—and Where Has It Come From?" Dr. Reid A. Bryson, professor and chairman of the department of meteorology at the University of Wisconsin, said that there is a history of weather that parallels the history of man. The basis of great power through history has been agriculture, and agriculture is controlled by weather patterns.

Weather systems move from west to east, Dr. Bryson said, in a band running at some north or south level which varies according to seasons and other factors. North of this band it is cold, while south of the band it is warm. In the days when the Vikings were a powerful force in the world, the weather band was far north, just above the Scandinavian countries, giving them ideal conditions for a strong agricultural base. During this period, there were even fertile agricultural settlements in Greenland, which today scarcely supports any plant life. The Vikings had conquered large portions of the world when the weather band moved abruptly southward, curtailing their agriculture and thereby their strength.

Dr. Bryson said meteorologists have never been able to discover what makes the weather band move north or south. They have determined, however, that these massive

[Continued on page 97]

Eldon Hendrickson, Sears, Roebuck & Co., told the Wisconsin Nurserymen's Association "How Sears Does It."

Full Program at New York Course

Production, Promotion, Garden Center Ideas and Reports Discussed

By Dr. A. M. S. Pridham

The 1958 short course of the New York State Nurserymen's Association, held December 3 to 5 in Statler Hall, on the campus of Cornell University, Ithaca, N. Y., offered a varied program that opened with an informal evening dinner and talks on European horticulture and continued with two days devoted chiefly to progressive production, promotion and garden center ideas. Interspersed were comments on current economic conditions and survey reports. In addition, the New York State Nurserymen's Association held its annual meeting in connection with the banquet December 4, and officers were elected as pictured on this page.

Officials of the New York State Nurserymen's Association at the short course held recently by the group at Cornell University: Left to right, Sidney Bennett, department of agriculture and markets, Albany, retiring secretary; Louis Weinstock, Poundridge Nurseries, Pound Ridge, retiring president; Hewlett Lewis, Lewis & Valentine, Greenvale, newly elected vice-president; A. M. S. Pridham, Cornell University, Ithaca, editor; Clarence Vanderbrook, C. W. Stuart Co., Newark, newly elected secretary, and A. L. Synesael, Jackson & Perkins Co., Newark, president-elect.

Opening Dinner

There was a record attendance of 135 for the opening dinner at 6 p. m. in the Statler Hall room December 3. The speakers and others participating in the program were introduced by the local chairman, A. M. S. Pridham, of the department of floriculture and ornamental horticulture at Cornell. Louis Weinstock, president of the New York State Nurserymen's Association, introduced the officers and directors of the association.

Dr. Charles E. Palm, director of research, New York state college of agriculture, a unit of the State University of New York at Cornell University, Ithaca, welcomed the nurserymen to the campus and reviewed a few of the projects currently of concern to nurserymen. These included disease and pest control, particularly nematode control work, as well as projects of the eastern regional marketing project and turf research projects under way at Ithaca and on Long Island.

Christmas Tree Report

Dr. John Seeley, head of the department of floriculture and ornamental horticulture, spoke of changes in staff personnel.

Prof. L. S. Hamilton, department of conservation, called attention to United States standard grades for Christmas trees as illustrated by an exhibit of Scotch pine staged in Statler ballroom. Professor Hamilton also referred to the increasing interest in commercial production of superior strains of Scotch pine and other species for Christmas tree purposes. Members of the New York State Christmas Tree Growers Association are active participants in this work.

Edwin Kirk, director of the division of plant industry, department of agriculture and markets, reported over 1,000,000 Christmas trees had been inspected by the department representatives to date. Trees not up to grade standards or carrying disease or pests were discarded from New York markets. Mr. Kirk predicted an improvement in the Christmas tree situation.

Attention was called to the several exhibits in the ballroom and adjacent lounge. These exhibits included Cornell publications available on ornamentals and related subjects. One complete board was used for display of 10 publications on landscaping by Prof. Donald Bushey. These included the following extension bulletins: "The Planting and Care of Trees and Shrubs," "Pools for Home Grounds," "Outdoor Fireplaces," "Driveways and Sidewalks," "Shade Trees for the Home Lawn," "Selecting a Building Site for Farm, Village or City Home," "Landscaping Steep Slopes," "Foundation Plantings About the House," "Border Plantings and Outdoor Living Rooms for Rural and Urban Properties" and "Lawn Games for 4-H Boys and Girls." The publications as 4 to 16-page bulletins have been revised several times over the past 15 years since they first became available to the public through the Cornell extension service.

Prof. Donald Bushey, who will retire from his position of project leader in landscape extension in early 1959, received an ovation and congratulations from the nurserymen.

The retirement of Ira Reed, head gardener in ornamentals, was announced as of January 1. Mr. Reed has taken an active part in the preparation for many classes and meetings during his 38 years of service at Cornell. Mr. Reed's long-time friend and associate, William Barrett, farm foreman, also retires as of January 1, 1959.

Opening Session

The opening session for the 1959 nurserymen's short course was an informal one. Richard Simon, Blue Mount Nurseries, Monkton, Md., showed color slides of his European travel as holder of the Dreer fellowship of $2,000 for Cornell graduates. Mr. Simon spent short apprenticeship time at a number of European nurseries and botanic gardens through a schedule set up through Dr. George H. M. Lawrence, of the

[Continued on page 107]

Election, Panel and Talks, Arizona Course Highlights

By Joseph Folkner

The eighth annual short course of the Arizona Association of Nurserymen was held for the first time in the Memorial Union building, on the campus of Arizona State University, Tempe, on December 9 and 10. The course was jointly sponsored by the University of Arizona, Tucson, and Arizona State University, Tempe. Approximately 100 persons attended the various sessions and social activities.

Newly elected officers of the Arizona Association of Nurserymen are Earl Upham, Upham's Nurseries, Tucson, president; William H. Norman, Norman's Nurseries, Phoenix, vice-president, and Robert C. Hoose, Capital Feed & Seed Co., Tucson, secretary-treasurer.

The visitors were welcomed to the campus by Dr. Grady Gammage, president of Arizona State University. The program opened with an address on landscape designing by Joseph Folkner, department of horticulture, University of Arizona. The theme of this address was the upgrading of design service provided by nurseries for the development of residential grounds. It was pointed out that the nurserymen have more influence on the tastes of the public in this field than the purely professional landscape architect has, primarily because of the number of contacts the nurserymen have with individual homeowners. Also discussed were trends in design related to modern architecture in the southwestern concept of indoor-outdoor living.

Horticulture in the State

Dr. Leland Burkhart, head, department of horticulture, University of Arizona, presented the current picture of horticulture in the state, emphasizing some of the recent changes in technology and post-harvest handling of various crops, such as the vacuum cooling of lettuce, and pointing out the development of an entirely new production area near Willcox, which now permits the harvesting of lettuce some place in Arizona every month of the year. He also pointed out that because of the quality of citrus produced in this state, the bulk of it can be marketed as fresh fruit rather than being processed. He added that in the citrus industry irrigation practices are now determined largely by tensiometers rather than on a calendar schedule.

Carter Holton, Burpee Seed Co., aided by slides, spoke about the tremendous amount of work that goes into the selection and breeding of new varieties of flowers. Mr. Holton, during his 20 years of missionary work in China, discovered and introduced into this country the first odor-

New officers of the Arizona Association of Nurserymen: Left, Earl H. Upham, Upham's Nurseries, Tucson, president; right, William H. Norman, Norman Nursery & Flower Shop, Phoenix, vice-president.

less marigold. He emphasized in various ways that new varieties come into being by such means as selection, natural mutations, induced mutations by means of X-ray and other radiation and colchicine, which brought about the tetraploid snapdragons that are common in the trade today. He stated that since it is impossible to patent a variety brought about by breeding, the future of the flower seed industry for the various companies lies in the development and production of F_1 hybrids; in this instance, the parents are known only to the breeder. His remarks explained the apparent high cost per ounce of many flower seeds.

Panel Discussion

A panel, moderated by Harvey Tate, extension horticulturist, University of Arizona, discussed various problems, including weed control; it was brought out in this discussion that nurseries are responsible for the spread of many noxious weeds, particularly since the era of container-grown stock has come into being. Specialists from the extension service comprising the panel presented their current views on insect and disease problems. Most of the residents in Arizona have come from other areas, and currently the state has the second-fastest rate of increase in population. These persons are attempting to grow plants under conditions entirely strange to them. Probably 90 per cent of the problems on which aid is sought are not caused by insects or pathogens, but mainly by mismanagement, with overwatering the commonest fault.

William H. Norman made some pertinent observations to the effect that most nurserymen do not discount their bills by prompt payment and the current profit margins do not permit the hiring of higher-quality labor. He feels that both prices and services to the customer should be increased. Quality of stock, integrity, honesty and personalized services given by a nursery will all aid in combating the inroads being made by various chain-store organizations. He suggests, as a means of increasing profits, the rental of equipment rather than lending, charging for plans and service calls and keeping a careful watch on advertising costs and credit.

Plant Recommendations

Bernard W. Benson, superintendent, Boyce Thompson Southwestern Arboretum, Superior, told of a number of plants that have proved over the years to be good new additions to the landscape plant materials list.

Dr. R. H. Maier, department of agricultural chemistry and soils, University of Arizona, gave a presentation of the microelement situation, as far as plants are concerned. The presentation resulted in a lucid discussion of how these various microelements, such as iron, manganese, copper, zinc and boron, fit into the physiological process of growing plants. He pointed out that the three major elements — nitrogen, phosphorus and potash—have been thoroughly studied over the years and that there is still a tremendous field of study to be explored as far as microelements are concerned.

A discussion of the deciduous fruit research program for desert areas at the Mesa experiment station was presented by Dr. Paul M. Bessey.

Dr. Victor J. Miller, Arizona State University, spoke on dwarf

[Continued on page 70]

Plant Propagators Meet at Cleveland

Record Attendance, Tour Nurseries, Hear Varied Talks on Propagation And Elect Officers During Convention

By Fred C. Galle

President Hugh Steavenson, Forrest Keeling Nursery, Elsberry, Mo., left; President-elect Roy Nordine, Morton Arboretum, center, and Dr. Seymour Shapiro, Brookhaven National Laboratory, who discussed the use of radioactive isotopes in solving propagation problems at recent convention of Plant Propagators' Society held at Cleveland, O., December 3 to 6.

The largest registration in the history of the organization was recorded at the eighth annual meeting of the Plant Propagators' Society held at the Wade Park Manor, Cleveland, O., December 3 to 6. Society meetings and snow seem to go hand in hand, for this is the seventh out of eight annual meetings during which snow has been an unscheduled part of the program.

A new feature added to the agenda this year was a 1-day tour, conducted by the Lake County Nurserymen's Association on Wednesday, December 3. The tour of nurseries in Lake county was enjoyed by 110 members.

1959 Officers

New officers elected for 1959 are the following: President, Roy Nordine, Morton Arboretum, Lisle, Ill.; vice-president and program chairman, Harvey Templeton, Jr., Phytotektor, Winchester, Tenn.; secretary-treasurer, Dr. Kenneth Reisch, Ohio State University, Columbus, O.; editor, Dr. John Mahlstede, Iowa State University, Ames. Two new members of the executive committee are Art Lancaster, Portsmouth, Va., and A. R. Buckley, Dominion Arboretum, Ottawa, Ont., Canada.

Dr. L. C. Chadwick, right, receiving the propagators' award from E. H. Scanlon, chairman of the Plant Propagators' Society awards committee, at that group's convention. Dr. Chadwick is the second person ever to receive this outstanding recognition.

The secretary's report, given by Dr. Reisch, mentioned that 47 new members had been added to the society. The present membership is 326. He reported also that the subject index of the annual proceedings was recently printed and mailed to all members of the organization.

The news-letters which were started in 1958 were well received by all members. An honorary life membership was given to Dr. F. L. Skinner, Dropmore, Man., Canada, for his outstanding work in the field of plant propagation. The secretary also reported that a committee has been formed to start work on a glossary of propagation terms, which, upon completion, will be made available to the members.

An announcement was made of the new student award program, and a further report on the project was given by Dr. L. C. Chadwick, Ohio State University, Columbus. This student award can be won by any senior in an accredited college who presents the most meritorious paper on any phase of plant propagation. The papers will be submitted to a 5-member jury, who will pick the winning paper.

Two members of the society passed away in 1958. These were Carl D. Weber, Rocky River, O., and Peter G. Zorg, Collierville, Tenn.

Future Meeting Sites

The executive committee approved a change of location of meetings for the society. The meeting places for the next four years will be as follows: 1959, Philadelphia; 1960, Cleveland; 1961, New England area (site to be picked by the committee), and 1962, Cleveland.

The meeting officially got under way Thursday morning, December 4. Credit for the interesting program should be given to the vice-president and program chairman, Roy Nordine, who planned a full and varied schedule for the entire meeting. Presiding over the meetings was President Hugh Steavenson, Forrest Keeling Nurseries, Elsberry, Mo.

There was no formal welcome given to the society this year, as the past president, Louis Vanderbrook, who was to present the welcome address, was unable to attend because of a recent illness for which he is receiving hospital treatment. Letters were sent to Mr. Vanderbrook from members of the society.

The morning session on propagation and plant breeding was led by William Flemer III, Princeton Nurseries, Princeton, N. J., as moderator. The first paper was "Pyracanthas—Their Kinds, Culture and Uses," by Dr. Francis deVos, National Arboretum, Washington, D. C.

Dr. deVos pointed out that pyracanthas belong to the rose family and that six species are in cultivation, but the numerous species and varieties are extremely difficult to classify. Pyracantha angustifolia is the most easily distinguished species, because of its tomentose leaves. This plant, however, is not commonly available in the United States at the present time. Dr. deVos mentioned that the plant has been used in breeding work and is more resistant to blight than some of the species.

Pyracantha atalantoides is an upright-growing species of which the variety gibbsi is commonly used. Pyracantha coccinea is the most widely grown species in the northern states, especially its hardier form,

[Continued on page 119]

Landscaping of Bank Quells Public's Protests

A landscape design that was a key factor in integrating a bank office and parking lot into a neighborhood that is one of the historic sections of Charleston, S. C., recently received one of the 10 national "Plant America" awards conferred by the American Association of Nurserymen in 1958. Designed by Robert E. Marvin, Walterboro, S. C., for the Citizens & Southern National Bank of South Carolina, the landscape was planted by the Wildwood Garden Shop & Landscape Service, Walterboro.

In the spring of 1957, the Citizens & Southern National bank sought to buy property in the old section of Charleston for the purpose of building a small bank office with a parking lot. The parking facility was badly needed in this area where the streets are unusually narrow.

In spite of this need, a storm of protest arose from residents in the neighborhood, as well as from the various organizations that zealously guard against any move that threatens the character and charm of historic Charleston. They, understandably, did not want another large expanse of unrelieved asphalt as a blight on the landscape. The management of the bank planned to make the area as attractive as possible. Even so, the proposed parking lot became a controversial issue. Editorials were written, and letters both pro and con were published in the newspaper.

After many meetings with the city council and the board of architectural review, bank representatives finally obtained a permit for the parking area. The lot, with accommodations for 50 cars, and a small office were opened last February. The bank had done much more than the city required in making the area a beauty spot. Walls of old brick, wrought-iron gates and landscaped borders succeeded in blending the additions into a neighborhood that boasts such architectural gems as St. Michael's and St. Philip's churches, the City Hall and other pre-Revolutionary buildings. The small office, an old building that has been carefully restored, has become known as the "bank in a garden." A small formal garden with beds of camellias and azaleas bordered with boxwood is at the rear of the building.

Four factors influenced the choice of plants and the planting for this project: The theme of "Old Charleston," quick effect, climate control and the principles and elements of design. Since camellias, azaleas, hollies, magnolias, live oaks, boxwood and ivy have made the gardens in and about Charleston world famous, these plants were predominantly used to repeat the Charleston theme.

Average-size plants, such as those used in most landscape jobs, were used in this planting, except that the key plants were put in full scale. This gives the garden the appearance of having been planted many years ago. Climate control was important because of the large expanse of heat-reflecting asphalt in the parking area. Trees that provide shade in the summer and drop their leaves in the winter were used to help control the effects of the sun and wind and to relieve the complete exposure.

Key plants in full scale give the garden the appearance of having been planted many years ago.

Plants were located to accentuate and strengthen the lines of the parking lot, garden and building. Special texture studies were made and used for special areas. Key plants with the greatest height and coarsest texture were located at prominent corners of the beds, walls, building and garden.

They were also spaced at 20 to 30-foot intervals along the great expanse of walls. A harmonious drop in size of both plants and foliage, with an increase in the number of plants, next to and around the key plants was an important factor in the design. A third grouping of many smaller plants with finer texture was used in the final transition. This process was reversed as the design built back up to another heavy-textured key plant.

Several of the organizations that were opposed to the parking area have written to the bank to express their appreciation of the finished grounds. The project was cited in a recent issue of Business Week magazine as an example of industry's growing dependence on quality landscaping to gain community acceptance for its establishments in residential areas.

An editorial in the Charleston News and Courier said "What must be among the most distinctive parking lots and bank offices in the United States now is operating in downtown Charleston . . . By tasteful use of traditional landscaping and architecture, an ornament has been created."

Walls of old brick and landscaped borders surrounding the office of the Citizens & Southern National Bank of Charleston, S. C., blend with the historic surroundings of the city.

Better Liners OF THE *Better Kinds*

There's still time to order these

GOOD LINERS *from* GULF STREAM

•

WELL GROWN.....WELL GRADED

.....*Eastern Shore* GROWN

FIELD-GROWN SEEDLINGS, ONE AND TWO YEARS

	100	1000
Aronia arbutifolia, 10 to 12 ins.	$ 8.00	$ 70.00
Cornus florida, grafting size, 18 to 24 ins.	8.00	75.00
Cornus florida, budding size, 15 to 18 ins.	7.00	60.00
Cornus florida, small, 12 to 15 ins.	6.00	50.00
Cotoneaster acutifolia, 15 to 18 ins.	10.00	90.00
Cotoneaster divaricata, 18 to 24 ins.	10.00	90.00
Cotoneaster horizontalis, 2¼-in. pots	18.00	150.00
Crataegus cordata, 15 to 18 ins.	8.00	70.00
Exochorda grandiflora, 15 to 18 ins.	10.00	90.00
Hamamelis vernalis, 10 to 12 ins.	10.00	90.00
Ilex verticillata, 8 to 10 ins.	7.50	60.00
Myrica pensylvanica, 4 to 6 ins.	9.00	80.00
Rhodotypos kerrioides, 10 to 12 ins.	10.00	90.00
Sophora japonica, 8 to 10 ins.	15.00	125.00
Tilia cordata, 10 to 12 ins.	12.00	100.00
Viburnum americanum, 2-yr. T., 20 to 24 ins.	15.00	125.00
Viburnum carlesi, 10 to 12 ins.	20.00	180.00
Viburnum dilatatum, 15 to 18 ins.	12.00	100.00

ONE-YEAR HARDWOOD CUTTINGS • TWO-YEAR LINERS, TRANSPLANTS

Deutzia gracilis, 8 to 10 ins.	12.00	100.00
Forsythia Beatrix Farrand, 18 to 24 ins.	30.00	250.00
Forsythia Lynwood Gold, 15 to 18 ins.	22.00	200.00
Physocarpus aureus, 18 to 24 ins.	10.00	90.00
Physocarpus monogymus, 15 to 18 ins.	12.00	100.00
Tamarix Pink Cascade (Plant Patent No. 1275), 18 to 24 ins.	30.00	250.00
Weigela Eva Rathke, 24 to 26 ins.	15.00	125.00
Weigela floribunda, 24 to 26 ins.	10.00	90.00
Weigela vaniceki, 24 to 26 ins.	15.00	125.00

WRITE FOR COMPLETE PRICE LIST

JACQUES L. LEGENDRE, President • LESTER C. LOVETT, Vice President • ROBERT H. TALLEY, JR., Secretary

Phone SUnset 7-1421

GULF STREAM NURSERY INC.

WACHAPREAGUE, VIRGINIA

And again it is

CHICAGO IN JANUARY!

For the largest gathering of nurserymen that will be brought together by any of the winter meetings.

It will pay you to be there, and it will also pay you to make your hotel reservations NOW. Indications are that our 1959 convention will again be the "largest ever."

Of all months, January is the heaviest convention month in Chicago, and hotel men advise us that the situation will be tight and early reservations necessary. Write now for your reservations to the Hotel La Salle, La Salle and Madison Sts., Chicago 2, Ill., and be sure to mention the nurserymen's meetings.

The meeting dates in 1959 will be Monday, Tuesday and Wednesday, January 12-13-14. Meetings of a number of allied associations will be held during the week. The registration desk will be open Sunday, January 11.

Illinois State Nurserymen's Association
Annual Convention
January 12-13-14, 1959

NATIONAL LANDSCAPE NURSERYMEN'S ASSOCIATION
Midwinter Conference
January 11, 1959

Closed meetings of a number of allied national nurserymen's associations will also be held over the week-end.

ILLINOIS STATE NURSERYMEN'S ASSOCIATION

Start the New Year Off by Attending

THE ANNUAL CONVENTION OF THE OKLAHOMA STATE NURSERYMEN'S ASSOCIATION

JANUARY 5 and 6, 1959

at the

Biltmore Hotel, Oklahoma City, Okla.

Registration Fee $10.00

DIRKMAAT AZALEA FARM
P.O. Box 453 Phone: GIlbert 4-6639
516 Stevens Ave. Ridgewood, N. J.

Azaleas—both budded and lining-out stock—are our specialty. See our classified ads.

DEL-MAR-VA NURSERIES
Growers of Quality
Taxus, Ilex and other Ornamentals.
Ask for list.
DEL-MAR-VA NURSERIES
LINCOLN, DEL.
Phone: Milford, Delaware 4445

COMING EVENTS

MEETING CALENDAR

January 4 to 6, 1959—North Carolina Association of Nurserymen, winter meeting. College Union. North Carolina State College, Raleigh, N. C.

January 5 and 6 — Oklahoma State Nurserymen's Association, annual convention, Biltmore hotel, Oklahoma City, Okla.

January 5 to 7 — Eastern Regional Nurserymen's Association, annual winter meeting, Hotel Statler, New York, N. Y.

January 5 to 7—Indiana Association of Nurserymen, winter meeting. Purdue Memorial Union, Purdue University, West Lafayette, Ind.

January 6 to 8—Virginia nurserymen's short course, Fairfax, Va.

January 7—Sixth annual conference in landscape architecture for Iowa nurserymen, Memorial Union, Iowa State College, Ames, Ia.

January 7 to 9—Indiana Arborists' Association, annual meeting, Memorial Center, Purdue University, Lafayette, Ind.

January 7 to 9—Western Association of Nurserymen, annual convention, Hotel Bellerive, Kansas City, Mo.

January 8 — Massachusetts Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

January 8 and 9—Oregon Association of Nurserymen, annual convention, Hotel Eugene, Eugene, Ore.

January 8 to 10—Iowa Nurserymen's Association, annual convention, Hotel Kirkwood, Des Moines, Ia.

January 11—National Landscape Nurserymen's Association, winter meeting, Hotel La Salle, Chicago, Ill.

January 11 to 13 — New York State Arborists' Association, short course, Cornell University, Ithaca, N. Y.

January 12 — National Mail Order Nurserymen's Association, Inc., winter meeting, Douglas room, Hotel La Salle, Chicago, Ill.

January 12 to 14—Illinois State Nurserymen's Association, winter convention, Hotel La Salle, Chicago, Ill.

January 14 — Maryland Nurserymen's Association, annual meeting, Baltimore, Md.

January 15 and 16—Kansas state shade tree conference, annual conference, Kansas State College, Manhatten.

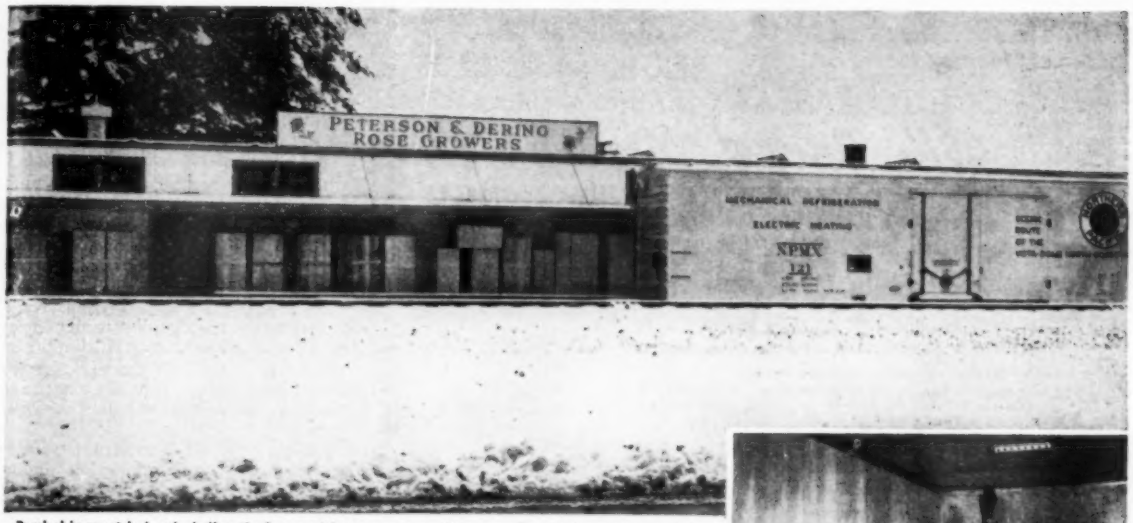
January 19 to 22—Ohio Nurserymen's Association, annual meeting, combined with annual Ohio State University short course for arborists, landscape gardeners and nurserymen, Neil House, Columbus, Ohio.

January 21 and 22—Connecticut Nurserymen's Association, short course, University of Connecticut, Storrs.

January 22 to 23—New Jersey Association of Nurserymen, winter meeting, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

January 23—Western New York Nurserymen's Association, annual meeting, Sheraton hotel, Rochester, N. Y.

January 23 and 24—Washington State Nurserymen's Association, winter meet-



Pool shipment is loaded directly from cold storage room into new "reefer" car at our siding

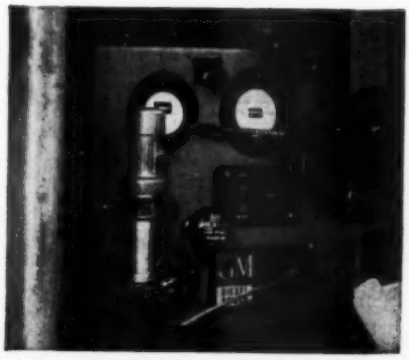
Here's Why P&D Roses Arrive *Safely* Through Winter Cold

New Mechanical Refrigerator Cars Maintain Constant, Safe Temperature for Entire Trip

This innovation in transcontinental shipping is another new Peterson & Dering service assuring safe delivery of Oregon's finest roses to any point in the nation.

Twin liquidometers register temperature at top and bottom of the car.

Inside temperatures are checked by inspectors enroute to destination.



Diesel power unit in car provides necessary heat or cold from 70° to —10°.

ORDER NOW for EARLY POOL CAR DELIVERY

Orders now being booked for pool car shipments to eastern points.

EASTERN NURSERYMEN: Contact Frank C. Donovan
130 E. 233rd Street, Euclid, Ohio

Build a better rose business with P&D Roses

Peterson = Dering
ROSE GROWERS
SCAPPOOSE OREGON

Oregon's Best Source of Good Roses . . *the Finest Anywhere*

Plan to
COME TO KANSAS CITY FOR THE
69th Annual Meeting
WESTERN ASSOCIATION OF NURSERYMEN
January 7, 8 and 9, 1959
Hotel Bellerive

A three-day meeting featuring the following speakers:
Stuart Mertz, Landscape Architect, St. Louis, Mo.
Curtis Porterfield, Secretary, A.A.N., Washington, D. C.
Jake Gerling, Rochester, N. Y.
Jack Siebenthaler, Siebenthaler Co., Dayton, O.
Ernest Wertheim, Landscape Architect, San Francisco, Calif.
Panel discussion on "TV and the Nurserymen"
Banquets and Entertainment
A well-rounded program that will be of interest and value to all.

Reservations:
Hotel Bellerive
214 E. Armour
Kansas City 11, Mo.
— or —
Jim Danbury, Secy.
4509 W. 74th Terrace
Kansas City 15, Mo.

The Ohio Nurserymen's Association
Invites You to Attend Its
Combined
Winter Meeting and O.S.U. Short Course
January 19—Arborists' Day
January 20—Landscape Gardeners' Day
January 21—Garden Center Operators' Day
January 22—Nurserymen's Day
The Neil House **Columbus, Ohio**

EVERGREEN
LINING-OUT STOCK
Finest seedlings and transplants from finest seed sources available . . . grown at our own nursery. Widest practical range of sizes and varieties available for ornamental or Christmas tree planting.
SPRUCE • FIR • HEMLOCK • MUGHO PINE • JUNIPER • ARBORVITAE, ETC.
Free Wholesale Price List
SUNCREST NURSERIES
BOX 305-F HOMER CITY, Pa.

ORNAMENTAL EVERGREENS
Trees and Shrubs
BAGATELLE NURSERY
P. O. Huntington Station, N. Y.

FINER LINERS
Hardy, northern New Jersey grown ornamentals of the better types. Seedlings, rooted cuttings, potted and bare-root transplants, bedded and field-grown — all top-quality and liberally graded. Send for your free descriptive catalog. Still time to save 5% on spring orders.
JOHN VERMEULEN & SON, INC.
Since 1921 Neshanic Station, N. J.

To all our friends in the nursery industry!
HAPPY NEW YEAR
CURTIS NURSERIES
CALLICOON, N. Y.

ing, Benjamin Franklin hotel, Seattle, Wash.

January 25 to 27—Virginia Nurserymen's Association, 28th annual convention, Hotel John Marshall, Richmond, Va.

January 26 to 28—Kentucky Nurserymen's Association, annual convention, Kentucky hotel, Louisville, Ky.

January 27—Southern California nursery institute, University of California, Los Angeles, Calif.

January 28 to 30—Michigan Association of Nurserymen, annual convention, Hotel Pantlind, Grand Rapids, Mich.

January 29 and 30 — Pennsylvania Nurserymen's Association, winter meeting, Penn Sheraton hotel, Pittsburgh, Pa.

February 1 to 3—Tennessee Nurserymen's Association, annual convention, Dinkler-Andrew Jackson hotel, Nashville, Tenn.

February 3 — Delaware nurserymen's short course, Agricultural Hall auditorium, University of Delaware, Newark, Del.

February 3 and 4—Short course for Oregon nurserymen, sponsored by Oregon State College, Corvallis.

February 3 to 5—New England Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

February 5—Northern California nursery institute, University of California, Davis, Calif.

February 8 to 10—National Arborist Association, winter meeting, Williamsburg Inn, Williamsburg, Va.

February 9 and 10—Short course for Colorado nurserymen and arborists, Colorado State University, Fort Collins, Colo.

February 9 and 10—Idaho Association of Nurserymen, annual meeting and garden school, Basque Center, Boise, Ida.

February 10 to 12—Southern chapter, National Shade Tree Conference, regional meeting, Williamsburg Lodge, Williamsburg, Va.

February 11—Lake County Nurserymen's Association, nurserymen's school, Hellriegel's Inn, Painesville, O.

February 17 to 19—Pennsylvania State University's nurserymen's conference, Pennsylvania State University, University Park, Pa.

February 18 to 20—Midwestern chapter, National Shade Tree Conference, winter meeting, Hotel La Salle, Chicago, Ill.

February 19—Maryland Nurserymen's Association, short course, University of Maryland, College Park, Md.

February 19 and 20 — Massachusetts Nurserymen's Association, short course, Waltham field station, University of Massachusetts, Waltham, Mass.

February 22 to 25—Canadian Association of Nurserymen, annual meeting, Garden Center hotel, Vineland Station, Ont., Canada.

WESTERN PROGRAM

The first morning of the convention to be held by the Western Association of Nurserymen January 7 to 9 at the Hotel Bellerive, Kansas City, Mo., will be devoted to registration, with a lunch scheduled for 11:30. According to the program recently

[Continued on page 24]

BIG MARK-UP ON NEW BIRD RETAIL PACKS

Here's a new way to increase your profits — just display and sell the new Bird retail packages of Peat Pots, Cutworm Collars, and Vita-Green Pots. They're bound to be fast-moving items because they fill a real need among home gardeners. And you profit from a generous mark-up on every item. Order from your distributor or send coupon for complete information and prices.

NEW PEAT POT PACKAGES:

Offer a choice of sizes — either 3" square or 2⅛" square, each packaged in compact containers of 12.

NEW CUTWORM COLLARS:

Here's a brand-new item — durable Cutworm Collars to protect tomato and other plants against cutworms. Carton is self-contained eye-catching display, holding twelve packages of twenty-four each.

VITA-GREEN POTS:

This has proved a high profit, high turnover item. Vita-Green Pots are available in boxes of 48 — 3" or 2⅛" size.

BIRD & SON, inc.
Established 1795

BIRD & SON, INC., DEP'T AN
East Walpole, Massachusetts

Please send me complete information and prices on Bird Retail Items.

Name .....

Street & No. .....

City & State .....

Cartwright Nursery Co

Phone: UL 3-2352 **Highway 72-57, 10 miles east of Memphis** **Collierville, Te**

TERMS: Our terms are net, 30 days from invoice date, to firms with established credit, unless other arranged. Interest at 6% will be charged on past-due accounts.

ORDERS: Orders are booked subject to crop failure or injury to stock and to errors in count or gra

CLAIMS: Claims made for any reason must be made promptly to receive consideration. Claims for e in count or for stock injured in packing or otherwise must be made within 10 days of receipt of stock claims made promptly will receive careful consideration. We do not guarantee the life of any stock. do guarantee to ship good-quality plants, in good condition when we load them out.

QUANTITIES: Our prices are based entirely on wholesale quantities, and on long and widely assorted of stock, the per 10 price will prevail, even if a full load of stock is ordered. This is necessary becaus the greater cost of assembling and loading such an order. Normally 25 or more plants will take the 100

SHIPPING: All stock is sold F.O.B. our nursery at Collierville and travels at the risk and expense of the chaser. We do have access to a large fleet of refrigerator semitrailer vans at a very advantageous rate can arrange for delivery to you very economically. We make pool shipments to customers who want than a full truckload of plants and we usually prepay freight charges on pool shipments and prorate freight to the customers on a weight basis. We do not box any plants for L.C.L. shipment.

AMERICAN ARBORVITAE VARIETIES

(Thuja occidentalis)

	Per 10	Per 100
Dark Green American Arborvitae		
30 to 36 ins.	$2.25	$2.00
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.50	3.00
Compacta erecta globosa Arborvitae		
15 to 18 ins.	1.60	1.40
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.60
Globosa (American Globe) **Arborvitae**		
12 to 15 ins.	1.45	1.25
15 to 18 ins.	1.80	1.60
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
Pyramidal American Arborvitae		
18 to 24 ins.	1.60	1.35
24 to 30 ins.	1.80	1.65
30 to 36 ins.	2.50	2.25
3 to 4 ft.	3.00	2.75
4 to 5 ft.	3.75	3.50
5 to 6 ft.	4.50	4.25

ORIENTAL ARBORVITAE VARIETIES

(Thuja orientalis)

	Per 10	Per 100
Baker Arborvitae		
2 to 3 ft.	$1.40	$1.35
Berckmans Arborvitae		
15 to 18 ins.	1.40	1.20
18 to 24 ins.	1.70	1.50
Blue Cone Arborvitae		
18 to 24 ins.	1.20	1.00
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50
Bonita Arborvitae		
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.65	1.50
Excelsa Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50
Golden Ball Arborvitae		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.50	1.35
Newarki Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50

JUNIPERS, SPREADING VARIETIES

	Per 10	Per 100
Andorra Juniper		
15 to 18 ins.	$1.60	$1.40
18 to 24 ins.	1.90	1.75
24 to 30 ins.	2.50	2.25
Andorra Juniper, green		
15 to 18 ins.	1.60	1.40
18 to 24 ins.	1.90	1.75
24 to 30 ins.	2.50	2.25
Meyer Juniper		
15 to 18 ins.	1.75	1.50
Pfitzer Juniper		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.65	1.50
18 to 24 ins.	2.20	2.00
24 to 30 ins.	2.75	2.50
Pfitzer Blue Juniper		
15 to 18 ins.	1.65	1.50
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
Compact Pfitzer Juniper		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.65	1.50
18 to 24 ins.	2.20	2.00
24 to 30 ins.	2.75	2.50
Pfitzer Nana Juniper		
12 to 16 ins.	1.25	1.10
15 to 18 ins.	1.65	1.50
18 to 24 ins.	2.20	2.00

JUNIPERS, UPRIGHT VARIETIES

	Per 10	Per 100
Juniperus virginiana glauca		
2 to 3 ft.	$2.75	$2.50
3 to 4 ft.	3.75	3.50
Juniperus virginiana burki		
2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.75	3.50
Juniperus virginiana canaerti		
2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.75	3.50
4 to 5 ft.	4.75	4.50
Cupressifolia Juniper (Hillspire Juniper)		
2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.75	3.50
Dundee Juniper		
2 to 3 ft.	2.75	2.50

	Per 10	Per 100
Hetz Blue Juniper		
15 to 18 ins.	$1.45	
18 to 24 ins.	2.00	
24 to 30 ins.	2.50	
30 to 36 ins.	3.00	
Savin Juniper		
12 to 15 ins.	1.00	
15 to 18 ins.	1.35	
18 to 24 ins.	1.75	
Von Ehron Juniper		
15 to 18 ins.	1.35	
18 to 24 ins.	1.75	
24 to 30 ins.	2.25	
30 to 36 ins.	2.75	
Repandens Juniper (Virginiana repandens), dark green, good winter color		
12 to 15 ins.	1.00	
15 to 18 ins.	1.35	
18 to 24 ins.	1.75	
Virginalis Juniper Vase-shaped, light green		
15 to 18 ins.	1.35	
18 to 24 ins.	1.75	
24 to 30 ins.	2.25	
Fastigiata Juniper		
24 to 30 ins.	$1.10	
30 to 36 ins.	1.40	
3 to 4 ft.	1.65	
4 to 5 ft.	2.25	
5 to 6 ft.	2.75	
Greek Juniper (Juniperus excelsa stricta)		
15 to 18 ins.	1.35	
18 to 24 ins.	1.65	
24 to 30 ins.	2.25	
Hetzi glauca Juniper, pyramids (Hetzi Glauca), staked and trained to pyramids		
24 to 30 ins.	2.25	
30 to 36 ins.	3.00	
3 to 4 ft.	3.75	
Mascula Juniper (Juniperus chinensis mascula), gray-green pyramids		
3 to 4 ft.	2.75	
Von Ehron Juniper, pyramids (Juniperus sabina vonehron), staked and trained to pyramids		
24 to 30 ins.	2.25	
30 to 36 ins.	3.00	
3 to 4 ft.	3.75	

MISCELLANEOUS CONIFERS

	Per 10	Per 100
...s Gareei Cypress		
...o 4 ft.	$3.25	$3.00
...us atlantica		
...o 3 ft.	1.75	1.50
...o 4 ft.	2.75	2.50
...o 5 ft.	3.75	3.50
...us deodara		
...o 3 ft.	1.75	1.50
...o 6 ft.	4.75	4.50
Chamaecyparis Cyane Viridis		
24 to 30 ins.	$1.50	$1.25
30 to 36 ins.	2.00	1.75
3 to 4 ft.	2.50	2.25
Austrian Pine (Pinus nigra)		
18 to 24 ins.	1.40	1.25
24 to 30 ins.	2.00	1.75
Austrian Pine (Cont'd.)		
30 to 36 ins.	$2.50	$2.25
3 to 4 ft.	3.25	3.00
White Pine (Pinus strobus)		
18 to 24 ins.	1.40	1.25
24 to 30 ins.	2.00	1.75
30 to 36 ins.	2.50	2.25
3 to 4 ft.	3.25	3.00

BROAD-LEAVED EVERGREENS

	Per 10	Per 100
...a grandiflora		
...o 3 ft.	$1.25	$1.00
...o 4 ft.	1.50	1.25
...e (Illicium anisatum)		
...o 3 ft.	1.50	1.25
...wood, harlandi		
...to 8 ins.	.60	.50
...to 10 ins.	.85	.75
...easter decora lactea		
...to 30 ins.	1.50	1.25
...to 36 ins.	2.00	1.75
...ogus pungens		
...o 3 ft.	1.25	1.00
...o 4 ft.	1.75	1.50
...ymus coloratus		
...to 24 ins.	1.20	1.00
...to 30 ins.	1.40	1.25
...to 36 ins.	1.75	1.50
...ymus patens		
...to 24 ins.	1.20	1.00
...to 30 ins.	1.40	1.25
...to 36 ins.	1.75	1.50
...to 4 ft.	2.25	2.00
...ienia stricta nana		
...to 18 ins.	1.00	.75
...cornuta burfordi		
...to 18 ins.	1.10	1.00
...to 24 ins.	1.40	1.25
...to 30 ins.	1.65	1.50
...cornuta femina		
...to 18 ins.	1.10	1.00
...to 24 ins.	1.40	1.25
...to 36 ins.	2.25	2.00
...to 4 ft.	3.25	3.00
...cornuta Hume Rectangular leaf, semidwarf		
...to 18 ins.	1.40	1.25
...to 24 ins.	1.65	1.50
...to 30 ins.	2.25	2.00
...crenata Bilozi Strong grower, very hardy, shears well		
...to 18 ins.	1.10	1.00
...to 24 ins.	1.65	1.50
...to 30 ins.	2.25	2.00
...crenata convexa		
...to 15 ins.	.90	.80
...to 18 ins.	1.10	1.00
...to 24 ins.	1.65	1.50
...to 30 ins.	2.25	2.00
...crenata repandens Low-spreading form		
...to 18 ins.	1.10	1.00
...to 24 ins.	1.65	1.50
...crenata rotundifolia		
...to 15 ins.	.90	.80
...to 18 ins.	1.10	1.00
...to 24 ins.	1.65	1.50
...to 30 ins.	2.25	2.00
...to 36 ins.	2.75	2.50
...glabra (Inkberry), very hardy		
...to 18 ins.	1.40	1.25
...to 24 ins.	1.65	1.50
...opaca, seedlings		
...to 3 ft.	1.70	1.50
...to 4 ft.	2.75	2.50
...to 5 ft.	3.75	3.50
...to 6 ft.	5.50	5.00
Ilex East Palatka		
2 to 3 ft.	$2.25	$2.00
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00
5 to 6 ft.	5.50	5.00
6 to 7 ft.	7.50	7.00
Ilex fosteri (Foster No. 2)		
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.25	3.00
Ilex opaca howardi		
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00
5 to 6 ft.	5.50	5.00
Ilex opaca Hume No. 2		
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00
5 to 6 ft.	5.50	5.00
Ilex opaca Reynolds		
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.25	3.00
Ilex vomitoria, small-leaved, sheared		
18 to 24 ins.	1.15	1.00
24 to 30 ins.	1.65	1.50
30 to 36 ins.	2.25	2.00
3 to 4 ft.	2.75	2.50
Ilex vomitoria Pride of Houston		
18 to 24 ins.	1.15	1.00
24 to 30 ins.	1.65	1.50
30 to 36 ins.	2.25	2.00
Ilex vomitoria nana (Dwarf Yaupon)		
12 to 15 ins.	1.50	1.25
15 to 18 ins.	2.00	1.75
Jasmine, floridum		
15 to 18 ins.	1.15	1.00
18 to 24 ins.	1.40	1.25
24 to 30 ins.	1.70	1.50
30 to 36 ins.	2.00	1.75
Ligustrum lucidum (Black Wax)		
24 to 30 ins.	1.25	1.10
30 to 36 ins.	1.50	1.35
3 to 4 ft.	1.90	1.65
Ligustrum lucidum, Griffing type		
24 to 30 ins.	1.25	1.10
30 to 36 ins.	1.50	1.35
Ligustrum lucidum Suwannee River		
15 to 18 ins.	1.50	1.25
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
Carolina Cherry Laurel		
2 to 3 ft.	1.50	1.25
3 to 4 ft.	1.75	1.50
4 to 5 ft.	2.75	2.50
5 to 6 ft.	3.75	3.50
Laurel, English		
18 to 24 ins.	1.15	1.00
2 to 3 ft.	1.75	1.50
Laurel, zabeli (Strap-leaved Laurel)		
15 to 18 ins.	1.40	1.25
18 to 24 ins.	2.00	1.75
Loropetalum chinense (Texas Fringe)		
18 to 24 ins.	1.15	1.00
24 to 30 ins.	1.75	1.50
Magnolia grandiflora		
2 to 3 ft.	1.75	1.50
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.75	3.50
5 to 6 ft.	5.50	5.00
Magnolia glauca (Sweet Bay)		
2 to 3 ft.	1.50	1.25
3 to 4 ft.	2.25	2.00
4 to 5 ft.	3.25	3.00
5 to 6 ft.	4.50	4.00
6 to 8 ft.	7.00	6.00
Nandina domestica		
15 to 18 ins.	$0.80	$0.75
18 to 24 ins.	1.00	.90
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.65	1.50
3 to 4 ft.	2.25	2.00
Viburnum burkwoodi		
18 to 24 ins.	1.65	1.50
24 to 30 ins.	1.90	1.75
30 to 36 ins.	2.25	2.00
Viburnum chenaulti		
18 to 24 ins.	1.65	1.50
Viburnum juddi		
15 to 18 ins.	1.40	1.25
18 to 24 ins.	1.65	1.50
Viburnum rhytidophyllum (Leather-leaved Snowball)		
18 to 24 ins.	1.65	1.50
24 to 30 ins.	1.90	1.75
30 to 36 ins.	2.25	2.00

DECIDUOUS TREES, B&B

	Per 10	Per 100
Magnolia nigra (Purple Magnolia)		
2 to 3 ft.	$1.75	$1.50
Magnolia soulangeana (Pink Magnolia)		
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.00	2.75
4 to 5 ft.	3.75	3.50
5 to 6 ft.	5.00	4.50
Magnolia stellata (Star Magnolia)		
18 to 24 ins.	2.25	2.00
2 to 3 ft.	3.25	3.00

LINERS

Pot Liners

R—Rose Pots P—Peat Pots

	Each
Elaeagnus fruitlandi, 2½-in. R	$0.12
Ilex burfordi, 3-in. P	.17½
Ilex crenata convexa, 3-in. P	.17½
Ilex crenata hetzi, 2½-in. R	.15
Ilex crenata repandens, 2¼-in. R	.15
Ilex opaca East Palatka, 2¼-in. R	.17½
Laurocerasus caroliniana, 2¼-in. R	.12
Magnolia glauca, 2½-in. R	.15
Osmanthus aquifolium, 2¼-in. R	.20
Osmanthus fortunei, 6 to 8 ins., 2½-in. R	.17½
Thuja occidentalis compacta erecta, 2½-in. R	.17½
Thuja occidentalis globosa, 2½-in. R	.17½
Thuja occidentalis nigra, 2½-in. R	.17½
Thuja occidentalis pyramidalis, 2½-in. R	.17½
Thuja occidentalis wareana, 2½-in. R	.17½
Thuja orientalis Berckmans Golden, 2½-in. R	.17½
Thuja orientalis excelsa, 2¼-in. R	.17½
Thuja orientalis fruitlandi, 2¼-in. R	.17½
Thuja orientalis Bonita, 2¼-in. R	.17½
Thuja orientalis newarki, 2¼-in. R	.17½
Viburnum burkwoodi, 6 to 8 ins., 2¼-in. R	.17½

Bed-Grown Liners

Buxus harlandi, T., 1-yr., 4 to 6 ins.	.08
Buxus harlandi, T., 2-yr., 6 to 8 ins.	.12
Chamaecyparis lawsoniana allumi, T., 1-yr., 6 to 8 ins.	.15
Ilex burfordi, T., 2-yr., 6 to 10 ins.	.15
Ilex crenata rotundifolia, T., 2-yr., 6 to 8 ins.	.15
Jasminum floridum, T., 8 to 12 ins.	.12

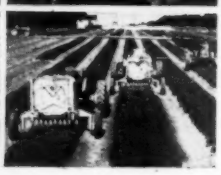
Field-Grown Liners

	Each
Ilex crenata rotundifolia, TT.	
Ilex crenata convexa, TT, 4-year, field-grown plants, many times trimmed—specimen quality—fine for cans.	
10 to 12 ins.	$0.40
12 to 15 ins.	.60

*20 MILLION TREES A YEAR!

*NOW OVER 35 MILLION!

MUSSER TREES
Grow Best!



MUSSER TREES BUILD SATISFIED CUSTOMERS —

Because of—Selected Seed, Good Heredity Characteristics, Scientific Methods of Planting and Propagation, Heavy Roots, Sturdy Tops and Rapid Growth —*Musser Trees grow and thrive where others may fail to survive.*

Good Tree Stock Pays Dividends

Musser Forests takes pride in supplying vigorous, high-quality nursery stock. To keep abreast with increasing costs of production the most modern equipment is used. Experienced personnel are employed, many with over 20 years' service. . . . Our production has increased year after year to keep pace with the ever-increasing demand for Musser trees.

OUR TREMENDOUS VOLUME ENABLES US TO SAVE YOU MONEY

	Per 100	Per 1000
SPECIAL STRAIN SCOTCH PINE Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.		
2-yr., S., 4 to 8 ins.	$ 6.00	$ 30.00
3-yr., S., 8 to 16 ins.	9.00	45.00
4-yr., T., 8 to 12 ins.	20.00	100.00
MUGHO PINE		
3-yr., S., 3 to 5 ins.	7.00	35.00
5-yr., T., 5 to 7 ins.	20.00	.....
AUSTRIAN PINE		
2-yr., S., 3 to 6 ins.	5.00	25.00
3-yr., S., 8 to 12 ins.	9.00	45.00
BLACK HILLS SPRUCE		
3-yr., S., 5 to 10 ins.	7.00	35.00
4-yr., S., 8 to 12 ins.	10.00	50.00
5-yr., T., 8 to 12 ins.	24.00	120.00
NORWAY SPRUCE—Fast-growing		
2-yr., S., 5 to 10 ins.	7.00	35.00
3-yr., S., 10 to 14 ins.	10.00	50.00
3-yr., T., 6 to 12 ins.	15.00	75.00
5-yr., T., 12 to 18 ins.	35.00	....
WHITE SPRUCE		
3-yr., S., 8 to 12 ins.	9.00	45.00
4-yr., T., 10 to 15 ins.	20.00	100.00
COLORADO BLUE SPRUCE		
3-yr., S., 4 to 8 ins.	9.00	45.00
4-yr., T., 4 to 8 ins.	18.00	90.00
DOUGLAS FIR		
2-yr., S., 5 to 10 ins.	7.00	35.00
3-yr., S., 8 to 12 ins.	11.00	55.00
AMERICAN ARBORVITAE		
3-yr., S., 8 to 12 ins.	8.00	40.00
CANADIAN HEMLOCK		
2-yr., S., 3 to 6 ins.	10.00	50.00
3-yr., T., 6 to 8 ins.	25.00	....
5-yr., T., 8 to 14 ins.	35.00	....
CONCOLOR FIR		
2-yr., S., 3 to 6 ins.	9.00	45.00

	Per 100	Per 1000
JAPANESE YEW		
Taxus cuspidata capitata—upright pyramidal		
2-yr., S., 3 to 6 ins.	$20.00	$150.00
3-yr., S., 4 to 8 ins.	30.00	200.00
Taxus cuspidata—spreading		
1-yr., T., 5 to 6 ins.	20.00	150.00
2-yr., T., 6 to 8 ins.	30.00	250.00
3-yr., T., 8 to 12 ins.	40.00	350.00
Taxus hicksi—upright		
1-yr., T., 5 to 7 ins.	25.00	175.00
2-yr., T., 8 to 10 ins.	40.00	300.00
Taxus browni—upright		
1-yr., T., 4 to 6 ins.	25.00	175.00
2-yr., T., 6 to 8 ins.	40.00	....
Taxus cuspidata capitata—spreading From side cuttings.		
*3-yr., T., 8 to 12 ins.	40.00	300.00
*(Heavy Liner)		
Taxus intermedia—spreading		
1-yr., T., 4 to 6 ins.	25.00	175.00
*3-yr., T., 8 to 12 ins.	40.00	....
*(Heavy Liner)		
Taxus andersoni—spreading		
1-yr., T., 5 to 7 ins.	20.00	150.00
JUNIPER HETZI GLAUCA—Blue Pfitzer		
1-yr., T., 5 to 7 ins.	25.00	200.00
GLOBE ARBORVITAE		
Woodwardi—dark green		
1-yr., T., 4 to 6 ins.	30.00	250.00
Hovey's—green		
1-yr., T., 4 to 6 ins.	25.00	200.00
PYRAMIDAL ARBORVITAE—Comacta		
1-yr., T., 5 to 7 ins.	25.00	200.00
JAPANESE HOLLY **Ilex rotundifolia**		
1-yr., T., 5 to 6 ins.	20.00	....
*4-yr., TT., 12-in. spread.,	$1.75 each	
*(Sold in lots 5 or more)		
AMERICAN HOLLY—Ilex opaca		
1-yr., T., 10 ins. and up.	50.00	400.00
(Sexes separate)		
WHITE DOGWOOD		
Seedlings, 12 to 18 ins.	16.00	80.00

ORDER NOW! Write or Phone: HOpkins 5-5686

Many Other Evergreen Items—Rhododendrons and Azaleas — All stock is carefully graded and packed —

No charge for packing and boxing. Our cold storage permits late shipment.

SEND FOR COMPLETE CATALOG and WHOLESALE PLANTING LIST — also famous CHRISTMAS TREE GROWERS' GUIDE.

MUSSER FORESTS Box 16-A INDIANA, PENNA.

released by H. F. Danbury, Kansas City, Mo., secretary of the association, subsequent events will be held as follows:

JANUARY 7

1:30 p. m.—Meeting called to order. Committee appointments, treasurer's report and announcements.

2 p. m.—"Affairs of the A. A. N.," by Curtis Porterfield, secretary, American Association of Nurserymen.

3 p. m.—"Basic Technique of Home Landscaping" (a film).

JANUARY 8

9 a. m.—"Commercial Landscape Design," by Stewart Mertz, landscape architect, St. Louis, Mo.

10:30 a. m.—"The Day of Reckoning," by Jake Gerling, superintendent of maintenance, department of parks, Rochester, N. Y.

1:30 p. m.—Credit film and talk, by representatives of Dun & Bradstreet, Kansas City, Mo.

2:30 p. m. — "TV and the Nurseryman," by Ellery Bennett, Chesmore Seed Co., St. Joseph, Mo.; Joseph Brady, Brady Nursery, Wichita, Kan., and Donald Roepke, Skinner Nurseries, Topeka, Kan.

3:30 p. m.—Panel discussion on TV advertising, with Messrs. Bennett, Brady and Roepke as panel members.

7 p. m.—Banquet.

JANUARY 9

9 a. m.—"Garden Center Operations," by Jack Siebenthaler, the Siebenthaler Co., Dayton, O.

10:30 a. m.—"Garden Center Design and Layout," by Ernest Wertheim, landscape architect and garden center consultant, San Francisco, Calif.

11:30 a. m.—W. A. N. business meeting.

12 noon—Adjournment.

OKLAHOMA DETAILS

A record number of exhibits will be on display and a record attendance is expected at the annual convention of Oklahoma State Nurserymen's Association, Inc., to be held January 5 and 6 at the Biltmore hotel, Oklahoma City. The convention program is as follows:

JANUARY 5

10:30 a. m.—Meeting called to order by President Jack Foote, Durant Nursery, Durant.

10:35 a. m. — Welcome address, by Mayor Allen Street of Oklahoma City.

10:40 a. m.—Introductions and announcements.

11 a. m.—"Product Display Merchandising," by Thomas Hogard, Thompson-Hayward Chemical Co., Kansas City, Mo.

12 noon—Lunch.

"Relationship of Television Weather Reporting to Gardening," by Bob Thomas, weatherman, WKY-TV, Oklahoma City.

2 p.m.—Special ladies' entertainment.

2 p. m.—"Principles of Garden Center Merchandising," by Don West, sales manager, Dallas branch, Verhalen Nursery Co., Scottsville, Tex.

3:30 p. m.—Visit exhibits.

7:30 p. m.—Annual banquet and presentation of awards.

9 p. m.—Dance and entertainment.

JANUARY 6

10 a. m.—"Promoting Petunias Pro-

"Plant growth improved...stock more saleable thanks to our FILON FIBERGLASS greenhouse...

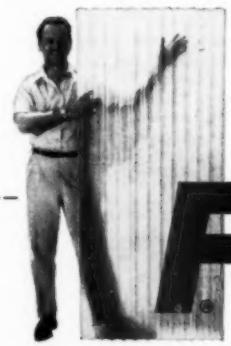
and it cost us less to build... hardly anything to maintain," says Mr. Emmett Hignight, Hignight Greenhouses, East Moline, Illinois

"I've never seen such plant blooming! Thanks to our FILON roofing all of our stock thrived, even the plants that arrived frozen last February. They all got exactly the warmth they needed because the low, wide FILON roof span allows heat to remain closer to plants at bench level. FILON keeps heat loss to a bare minimum, so we get along with less costly heating equipment. We also found that by diffusing the sun's rays, FILON allows every plant to receive the same even amount of light. Now we can safely tier our benches and grow more plants in the same floor space."

FILON SAVES MONEY AND TIME IN CONSTRUCTION – "One day was all it took to nail on the FILON. We saved on framing by using standard lengths of lumber. We cut costs by using simple pole construction instead of poured footing. There was no glazing of glass, so we actually saved in every way possible–material, labor and time."

NO MORE MAINTENANCE PROBLEMS – "FILON ended major maintenance costs. We have eliminated replacement due to breakage; no more re-glazing! That's because FILON is shatterproof and weather resistant. Even hail does not damage it. What's more, we don't have to whitewash FILON as we did our glass greenhouse. We sure are sold on FILON."

Look for FILON at your local lumber or building material dealers. Insist on the FILON label on every panel.



FILON PLASTICS CORPORATION

LOS ANGELES • NEW YORK • CHICAGO • ATLANTA
DALLAS • SAN FRANCISCO

FREE BOOKLET

"Filon Greenhouse"—Gives full facts, money-saving features of FILON fiberglass. Easy construction details. Write for your copy and name of nearest dealer to: Filon Plastics Corporation, 125 Lomita St., El Segundo 23, Calif.

5-WAY FILON GUARANTEE *Superior Fiberglass-and-Nylon reinforced strength • Uniform thickness for easier installation and better diffusion of light and color • Shatterproof for absolute safety • Weatherproof for maximum durability • Exceeds standards published by U. S. Bureau of Standards.*

LINING-OUT STOCK

Well-Grown — Fibrous Roots

Liberally Graded

	100 rate	1000 rate	2500 rate
Berberis thunbergi atropurpurea (Red-leaved Barberry)			
2-yr., S., 6 to 9 ins.	$0.07	$0.06	..
2-yr., S., 9 to 12 ins.	.08	.07½	..
2-yr., S., 12 to 15 ins.	.12	.11	..
2-yr., S., 15 to 18 ins.	.18	.15	..
Calycanthus floridus (Sweet Shrub)			
1-yr., S., 6 to 10 ins.	.04½	.04	..
Cornus elegantissima (Variegated Dogwood)			
1-yr., layer, 1½ to 2 ft.	.30	.28	..
Cornus florida, straight stems, branched, good root system.			
2-yr., S., 2 to 3 ft.	.14	.11	$0.10
2-yr., S., 3 to 4 ft.	.24	.20	.18
Cotoneaster divaricata (Spreading Cotoneaster)			
2-yr., T., 9 to 12 ins.	.28	.25	..
2-yr., T., 12 to 15 ins.	.32	.28	..
2-yr., T., 15 to 18 ins.	.35	.32	..
Deutzia gracilis (Slender Deutzia)			
1-yr., T., 6 to 9 ins.	.14	.12	..
Euonymus alatus compactus (Dwarf Winged Euonymus)			
2-yr., T., 10 to 12 ins.	.45	.35	.30
Euonymus patens (Spreading Euonymus)			
2-yr., heavy for potting	.28	.25	..
Euonymus radicans erectus			
2-yr., T., 12 to 15 ins., bushy	.28	.25	..
Euonymus vegetus			
2-yr., T., 10 to 15 ins.	.50	.45	.37½
Hydrangea A. G.			
1-yr., No. 1	.14	.13	..
Juniperus chinensis hetzi			
2-yr., T., 6 to 10 ins.	.40	.35	.32
2-yr., T., 12 to 15 ins.	.45	.42	..
Juniperus chinensis pfitzeriana			
1-yr., pot, No. 1	.30	.25	.22
1-yr., pot, No. 2	.25	.20	.18
Juniperus chinensis pfitzeriana compacta			
2-yr., pot	.45	.40	..
Leucothoe catesbaei, a broad-leaved shrub, nice for canning.			
3-yr., T., 10 to 12 ins.	.65	.60	..
Myrica pensylvanica			
2-yr., 8 to 12 ins.	.40	.30	..
Picea pungens, Moerheim, blue			
Pot grafts	1.25	1.20	..
1-yr., from grafts	1.75	1.65	..
Salix tortuosa (Hankow Contorted Willow)			
1-yr., C., 3 to 4 ft.	.22	.20	..
Sorbus aucuparia (European Mt. Ash)			
2 to 3 ft., T.	$0.40	$0.35	..
3 to 4 ft., T.	.55	.48	..
Tamarix Summer Glow			
1-yr., C.	.18	.16	..
Taxus cuspidata			
2-yr., pot	.30	.28	$0.25
3-yr., T.	.50	.48	.45
3-yr., TT., root-pruned	.60	.55	..
Taxus cuspidata capitata			
2-yr., S.	.15	.12½	.11
4-yr., T., bed	.58	.53	.50
4-yr., T. field	.85	.75	..
Taxus cuspidata nigra, dark green spreader, NEW!			
3-yr., T.	.70	.65	.60
Taxus cuspidata thayerae, spreader			
2-yr., pot	.30	.28	..
Taxus densiformis, dense spreader			
2-yr., T.	.45	.43	.40
Taxus densiformis, nice for canning			
5-yr., bare-root	1.35	1.25	1.20
Taxus henryi, spreader			
4-yr., T.	.80	.75	..
Taxus media andersoni, spreader			
4-yr., T.	.80	.75	..
Taxus media browni, globe shape			
2-yr., T.	.35	.32	.30
Taxus media Hailoran, upright			
4-yr., T.	.80	.75	..
Taxus media Halloran, nice for canning			
5-yr., T.	1.25	1.10	..
Taxus media hatfieldi, upright, nice for canning			
5-yr., T.	1.25	1.10	..
Taxus media wiltoni, spreader			
2-yr., T.	.40	.35	..
Thuja hoveyi			
2-yr., pot	.25	.22½	..
Thuja occidentalis nigra			
2-yr., pot	.28	.25	..
Viburnum carlesi (Fragrant Viburnum)			
1-yr., pot grafts	.50	.45	..
2-yr., from grafts, T., 9 to 12 ins.	.60	.55	..
2-yr., T., 12 to 15 ins.	.65	.60	..
2-yr., T., 15 to 18 ins.	.75	.70	..
Viburnum opulus nanum			
2-yr., pot	.30	.28	..
Weigela vaniceki			
1-yr., No. 2	.15	.12	..

TERMS: 2% 10 days; 30 days net; 3% for cash with order.

the cottage gardens

Nick I. W. Kriek — Harold E. Hicks

Telephones: IV. 2-9021, IV. 2-9276.

2707 W. St. Joseph St. Lansing 17, Mich.

Just west of city limits on U. S. 27.

(OUR 35th YEAR)

vokes Prolific Planning," by Marvin Joyner, Marvin Joyner Co., Oklahoma City.

11 a. m.—Secretary-treasurer's report, by Cyrus E. Adams, Kenyon's Nursery, Oklahoma City.

11:15 a. m.—Business session and election of officers.

12 noon—Adjournment.

ILLINOIS PROGRAM SET

Plans that have been announced for the annual winter convention of the Illinois State Nurserymen's Association at Chicago January 12 to 14 again name the Hotel LaSalle headquarters, but indicate a change in meeting and exhibit quarters from those occupied for the past several years. This year the program will be held on the 19th floor of the hotel, while the exhibits, open Monday morning, January 12, will be displayed in the Grand ballroom on the same floor. Registration starting at 9:30 a. m January 12 will precede the opening luncheon. Details of the convention follow:

JANUARY 12

12:15 p.m.—Luncheon.

1:15 p. m.—Call to order.

President's address, by Edward P. Eickhof, Bensenville.

Address, "How To Keep Your Foot Out of Your Mouth," by Edward Mc Faul, Chicago.

Film, "Illinois Garden for the Blind," shown by Harold O. Klopp, Palatine, Ill.

JANUARY 13

9:30 a. m.—I. S. N. A. meeting, in Lincoln-Douglas room.

Treasurer's report.

Committee reports.

Unfinished business.

New business.

Report of nominating committee.

Election of officers.

11 a. m.—Annual meeting of the Illinois chapter of the American Association of Nurserymen.

12:15 p. m.—I. S. N. A. business meeting, in the Century room.

Address, "The Thinkers are the Makers of the World," by R. Roy Keaton, Chicago.

Film, "Basic Techniques of Home Landscaping," courtesy A. A. N.

JANUARY 14

Afternoon session:

Panel discussion — "The A. A. N. Story," with Robert Hobbs, Bridgeport, Ind., president of the A. A. N., moderator, and Edward Eickhof, John Tures, Roy Clavey, Curtis Porterfield and H. D. Quadland, members.

Address, "Economic Outlook, 1959," by Dr. Richard P. White, executive vice-president, A. A. N.

Adjournment.

6 p. m.—Cocktail hour, banquet, entertainment and dancing.

Ladies' Program

There will be special entertainment for the ladies. January 12, at 2:30 p. m., cards and refreshments will be enjoyed in the La Salle room. on the 18th floor, courtesy of the I. S.

[Continued on page 30]

KEIDING'S ART-POTS *put that extra "touch of* COLOR *in your nursery . . . extra profits in your pocket*

Now you can pot your plants in containers that have real buyer appeal . . . and give you a selling season that lasts up to nine months. Here's a really colorful bush, plant or tree container that puts warmth and beauty into your display. Because Keiding's ART-POTS are "self-airing," your stocks actually thrive. Plants mature faster from potting thru planting stage. Holes in bottom of container assure the proper drainage.

An added appeal for your customers is the fact that stock can be planted intact . . . pot and all. The right depth is assured. Roots are undisturbed, so there's no "transplant shock." After planting, ART-POTS break up in the ground and act as a mulcher. Your sales continue from spring to fall, because landscaping can be done anytime. This is a "natural" for any nursery.

Keiding ART-POTS are available in seven popular sizes, in green or brown. They're durable . . . won't crack or break. They're lightweight and, naturally, compactly nested for easy storage.

Fill out and mail the attached coupon for complete information on Keiding ART-POTS. There's a giant Sales-Merchandiser available, too. Write today.

KEIDING
Paper Products Company
4545 West Woolworth Avenue
Milwaukee, Wisconsin

KEIDING PAPER PRODUCTS CO.
4545 W. Woolworth Ave., Milwaukee, Wisconsin

Gentlemen:
Please rush full details, with prices, on your colorful, new ART-POTS.

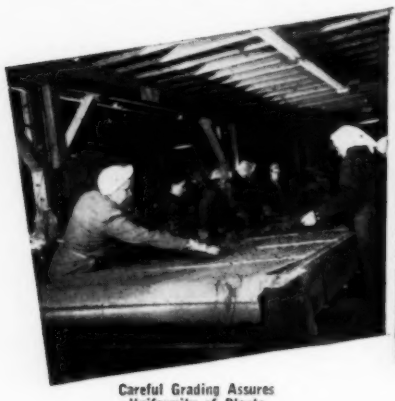
_____

_____

_____

QUALITY NURSERY-GROWN SEEDLINGS

All our seedlings are grown in open beds, with proper irrigation and fertilization. They have good caliper for height. They are shipped fresh-dug or stored under the best modern storage facilities. You will be well pleased with the "catch" you get with our seedlings.



Careful Grading Assures Uniformity of Plants

30 Acres of Seedbeds at the Beginning of the Growing Season

Packing Out the Finished Product

	Each per 100	Each per 1000
Acer campestre (Hedge Maple)		
4 to 6 ins.	3½c	2c
6 to 8 ins.	5c	3c
8 to 12 ins.	7c	5c
Acer ginnala (Amur Scarlet Maple)		
6 to 12 ins.	4c	2½c
12 to 18 ins.	6c	4c
18 to 24 ins.	9c	6c
2 to 3 ft.	12c	9c
Acer platanoides (Norway Maple)		
9 to 12 ins.	8c	6c
12 to 18 ins.	9c	8c
18 to 24 ins.	15c	12c
2 to 3 ft.	25c	20c
Albizzia julibrissin (Mimosa)		
6 to 12 ins.	4c	2c
12 to 18 ins.	5c	3c
18 to 24 ins.	7c	5c
2 to 3 ft.	11c	9c
Berberis thunbergi atropurpurea		
4 to 6 ins.	5c	3c
6 to 10 ins.	6c	4½c
Carpinus betulus (European Hornbeam)		
2 to 4 ins.	5c	3c
4 to 6 ins.	8c	6c
6 to 8 ins.	10c	9c
Carpinus japonica (Japanese Hornbeam)		
(2-0), 4 to 6 ins.	8c	6c
(2-0), 6 to 9 ins.	9c	7c
(2-0), 9 to 12 ins.	12c	10c
Carya pecan (Pecan)		
1-yr., S. (about 6 ins.)	8c	6c
Celastrus orbiculata (Oriental Bittersweet)		
1-yr., S. (about 6 ins.)	7c	5c
Cornus kousa (Flowering Dogwood)		
6 to 8 ins.	9c	7c
8 to 12 ins.	11c	9c
12 to 18 ins.	15c	12c
Cornus mas (Cornelian Cherry)		
6 to 12 ins.	8c	6c
12 to 18 ins.	11c	9c
18 to 24 ins.	18c	14c
Cornus officinalis (Japanese Cornel)		
6 to 12 ins.	8c	6c
12 to 18 ins.	11c	9c
18 to 24 ins.	18c	14c
Crataegus cordata (Washington Hawthorn)		
4 to 6 ins.	6c	4c
6 to 8 ins.	8c	6c
8 to 12 ins.	10c	9c
Elaeagnus angustifolia (Russian Olive)		
6 to 12 ins.	5c	3c
Elaeagnus multiflora (Cherry Elaeagnus)		
6 to 12 ins.	5c	4c
12 to 18 ins.	7c	6c
18 to 24 ins.	10c	8c
Fraxinus excelsior (European Ash)		
8 to 12 ins.	3c	2c
12 to 18 ins.	5c	3½c
18 to 24 ins.	7c	5c
Fraxinus lanceolata (Green Ash)		
6 to 12 ins.	2c	1½c
12 to 18 ins.	2½c	2c
18 to 24 ins.	3c	2½c
Ilex decidua (Deciduous Holly)		
6 to 12 ins.	9c	7c
12 to 18 ins.	13c	11c
18 to 24 ins.	17c	..
Juniperus virginiana (Red Cedar—Winona Type)		
2 to 4 ins.	3c	2½c
4 to 6 ins.	5c	4c
Koelreuteria paniculata Golden-Rain Tree)		
6 to 10 ins.	7c	5c
10 to 15 ins.	10c	8c
15 to 24 ins.	15c	12c
Larix leptolepis (Japanese Larch)		
4 to 6 ins.	5c	3c
6 to 8 ins.	9c	6c
8 to 12 ins.	13c	10c
Ligustrum sinense (Chinese Privet)		
6 to 12 ins.	2c	1½c
12 to 18 ins.	3c	2c
18 to 24 ins.	6c	5c

	Each per 100	Each per 1000
Liquidambar styraciflua (Sweet Gum)		
8 to 12 ins.	10c	7c
12 to 18 ins.	13c	9c
18 to 24 ins.	18c	14c
Lonicera japonica (Japanese Vine Honeysuckle)		
Light	5c	3c
Heavy	7c	5c
Lonicera maacki podocarpa (Amur Honeysuckle)		
6 to 12 ins.	4c	3c
12 to 18 ins.	7c	5c
18 to 24 ins.	10c	8c
Malus sieboldi (Toringo Crab Apple)		
8 to 12 ins.	4c	3c
12 to 18 ins.	7c	5c
18 to 24 ins.	10c	8c
Malus zumi (Redbud Crab Apple)		
8 to 12 ins.	4c	3c
12 to 18 ins.	7c	5c
18 to 24 ins.	10c	8c
Nyssa sylvatica (Black Gum)		
6 to 12 ins.	9c	6c
12 to 18 ins.	11c	8c
18 to 24 ins.	13c	11c
Parthenocissus quinquefolia (Virginia Creeper)		
No. 1	9c	7c
No. 2	6c	5c
Phellodendron amurense (Amur Cork Tree)		
12 to 18 ins.	6c	5c
18 to 24 ins.	9c	7c
24 to 30 ins.	13c	11c
Pinus sylvestris (Scotch Pine)		
2 to 4 ins.	2c	1½c
4 to 6 ins.	4c	2½c
Pinus thunbergi (Japanese Black Pine)		
4 to 6 ins.	5c	4c
6 to 8 ins.	7½c	7c
Prunus besseyi		
12 to 18 ins.	4c	3½c

	Each per 100	Each per 1000
Prunus subhirtella (Japanese Flowering Cherry)		
12 to 18 ins.	9c	7c
18 to 24 ins.	15c	12c
2 to 3 ft.	20c	15c
Prunus subhirtella pendula (Weeping Higan Cherry)		
12 to 18 ins.	12c	9c
18 to 24 ins.	15c	12c
2 to 3 ft.	20c	15c
Prunus yedoensis (Yoshino Cherry)		
12 to 18 ins.	10c	9c
18 to 24 ins.	15c	12c
2 to 3 ft.	20c	15c
Pueraria thunbergiana (Kudzu Vine)		
1-yr., crowns	6c	5c
Quercus borealis (Red Oak)		
6 to 12 ins.	7c	6c
12 to 18 ins.	8½c	8c
Quercus palustris (Pin Oak)		
6 to 12 ins.	7c	5c
12 to 18 ins.	8½c	8c
18 to 24 ins.	13c	11c

	Per 1000
Rosa multiflora japonica	
Conservation grade, 3 mm, 8 to 12 ins.	$13.50
No. 2, 2/16 to 3/16-in. cal.	18.00
No. 1, 3/16 to 1/4-in. cal.	24.00
Jumbo, 1/4 to 3/8-in. cal.	36.00
Country Club, 3/8-in. cal. and up	60.00

	Each per 100	Each per 1000
Rosa wichuraiana		
6 to 8 ins.	7c	5c
8 to 12 ins.	10c	7c
Styrax japonica (Japanese Snowball)		
12 to 18 ins.	12c	..
18 to 24 ins.	15c	..
Syringa vulgaris (Common Lilac)		
2-yr., S., 6 to 9 ins.	4c	3c
2-yr., S., 9 to 12 ins.	6c	5c
2-yr., S., 12 to 18 ins.	9c	8c
2-yr., S., 18 to 24 ins.	13c	12c
Thuja orientalis (Rochester strain)		
2 to 4 ins.	3c	1½c
4 to 6 ins.	4c	2c
6 to 9 ins.	6c	4c
9 to 12 ins.	9c	7c

	Each per 100	Each per 1000
Tilia cordata (Little-Leaved Linden)		
6 to 12 ins.	9c	7c
12 to 18 ins.	16c	14c
18 to 24 ins.	20c	18c
Ulmus parvifolia (True Chinese Elm)		
6 to 12 ins.	9c	7c
12 to 18 ins.	11c	9c
18 to 24 ins.	15c	12c
Ulmus pumila (Siberian Elm)		
6 to 12 ins.	1½c	1c
12 to 18 ins.	2½c	2c
18 to 24 ins.	3½c	3c
Viburnum dilatatum (Linden Viburnum)		
6 to 12 ins.	8c	6c
12 to 18 ins.	11c	9c
18 to 24 ins.	15c	13c
Viburnum lantana (Wayfaring Tree)		
4 to 6 ins.	8c	6c
12 to 15 ins.	13c	10c
Viburnum opulus (European Cranberry Bush)		
6 to 12 ins.	10c	7c
12 to 18 ins.	13c	10c
Viburnum prunifolium (Black Haw)		
4 to 6 ins.	9c	6c
Viburnum rufidulum (Southern Black Haw)		
8 to 12 ins.	8c	6c
12 to 18 ins.	11c	9c
18 to 24 ins.	15c	13c
Viburnum trilobum (American Cranberry Bush)		
4 to 6 ins.	6c	4c
6 to 8 ins.	8c	6c
8 to 12 ins.	11c	9c
12 to 15 ins.	15c	13c
Viburnum wrighti		
6 to 8 ins.	8c	6c
8 to 12 ins.	11c	9c
12 to 18 ins.	15c	13c
18 to 24 ins.	19c	17c

All prices F.O.B. Elsberry.

Boxing and packing at cost.

Please Note: This list is accurate as of January 1, 1959. Many items will be snapped up quickly; so please book without delay to avoid disappointment.

Plants are tied 25 to the bundle; so please order in units of 25. 25 to 300 take the 100 rate; 300 or more the 1000 rate. Prices are F.O.B. Elsberry—any necessary crates at cost.

All plants offered are grown in our own nursery. None are collected and we broker no plants.

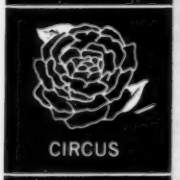
MISSOURI GROWN IS HARDY...

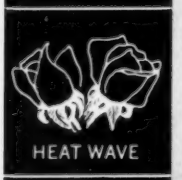
Hugh Steavenson, Prop.

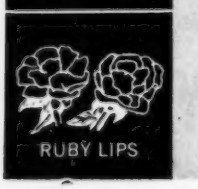
FORREST KEELING NURSERY

ELSBERRY, MISSOURI

Telephone: TWinoaks 8-5671



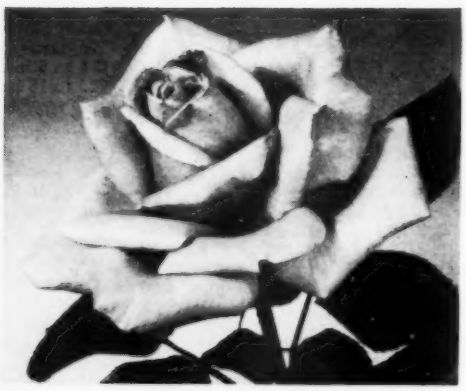




Feature the

Armstrong Hall of Fame

ADVERTISED—
KNOWN—WANTED
ROSES



AZTEC

A '57-'58 Sellout
Sure to Repeat!

Rose people have called it the "brightest rose of the decade"! Aztec's flaming scarlet-orange color, and huge exhibition-perfect blooms, caught the public's fancy fast. From nurseries in every section of the country, reports poured in: "We could have sold many more!" Now the lucky folks who got it have been telling friends how easy it is to grow the vigorous handsomely foliaged plant . . . what a pleasure it is to cut the shapely buds and long-lasting flowers. Demand next season will be way up. Put this one at the top of your order list!

Write for our Wholesale List!

ARMSTRONG NURSERIES

ONTARIO, CALIFORNIA

N. A. January 13, after luncheon at 11 a. m. in Parlor E, on the mezzanine, there will be a theater party. At 12:15 January 14, there will be a luncheon, with entertainment, and in the evening the cocktail hour and banquet are scheduled. Each lady attending the banquet will receive a corsage, courtesy of the association.

N. L. N. A. PROGRAM

The schedule of events for the annual meeting and midwinter conference of the National Landscape Nurserymen's Association, to be held January 11 in the Lincoln-Douglas room of the Hotel LaSalle, Chicago, Ill., is announced as follows:

1:30 p. m.—Presidential remarks, by Russell Zakariasen, Homedale Nurseries, Hopkins, Minn.

1:55 p. m.—Address: "Is There Anything New in Landscape Design?" by Franz Lipp, landscape architect, Chicago, Ill.

3:15 p. m.—Kaffee klatch.

3:30 p. m.—Round table: "What Shall the Profits Be?" with Kenneth Vogt, executive secretary, Lanco, Dayton, O., moderator:

"People's Increasing Leisure—Source of Landscape Prosperity," by Lawrence W. Bachman, Bachman's, Inc., Minneapolis, Minn.

"How to Capitalize on the Approaching Boom," by John Chippman, Light's Tree Service, Richland, Mich.

"Competitors of Our Industry," by Jack Siebenthaler, the Siebenthaler Co., Dayton, O.

"Effects of Economic Changes on Landscape Nursery Industry," by Roy F. Clavey, Clavey Ravinia Nurseries, Inc., Deerfield, Ill.

4:15 p. m.—Question and answer period.

4:30 p. m.—Business meeting and election of officers.

5 p. m.—Adjournment.

6:30 p. m.—Dinner, buffet style. Address: "Federal Housing Administration Attitude Toward Landscaping," by Norman Mason, commissioner of FHA, Washington, D. C.

8:30 p. m.—"What's New in Landscape Design?" by N. L. N. A. members. Each member will show five slides of his best work.

IOWA CONFERENCE AGENDA

The Iowa State College department of landscape architecture, Ames, Ia., will present its sixth annual landscape conference for nurserymen on Wednesday, January 7, in the Memorial Union building.

According to the conference program, recently released by Prof. R. R. Rothacker, the first speaker will be Malcolm C. Shurtleff, extension plant pathologist, I. S. C., who will discuss "Fungicides for Ornamentals and Evergreens." Edwin T. Hibbs, I. S. C., will then present a talk on "Lawn Pests and What to Do for Them," and Roy Ferguson, Linn County Nurseries, Center

This Ad will be seen over

21 MILLION

times by YOUR customers!

SCHEDULED TO APPEAR

24 TIMES in these publications... the magazines *Most Thoroughly Read by HOME GARDENERS!*

FREE
COLOR FOLDER
SHOWS VARIETIES AND MULTIPLE USES OF
EMERALD
EUONYMUS SHRUBS
THE FINEST
Broad-leaved Evergreens
FOR
HEDGING • FOUNDATION AND ORNAMENTAL USE

FOR FREE COLOR BROCHURE and name of your nearest Emerald Euonymus dealer, write to:

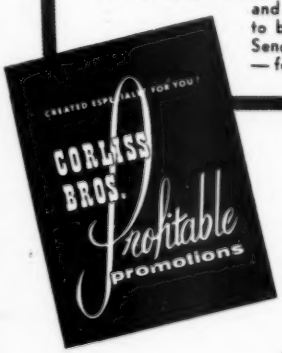
CORLISS BROS.
INCORPORATED
IPSWICH 10, MASSACHUSETTS

FREE! NURSERY AND GARDEN CENTER SALES KIT

"PROFITABLE PROMOTIONS"

★

Designed to help you sell and make a full profit on EMERALD Euonymus. This kit contains: color brochures and post-cards available for distribution to your customers; window banners; new consumer newspaper mats; full plant descriptions and our complete plan to boost YOUR SALES! Send for your kit today — for profits tomorrow!



WRITE FOR YOURS NOW!

***And*- WE'RE GIVING THEM YOUR NAME SO BE READY WHEN THEY COME IN TO BUY! Order your stock from these licensed growers:**

Adams Nursery, Inc., Westfield, Mass.
Cassinelli's Glendale Nurseries, Glendale, O.
Kelly Bros. Nurseries, Inc., Dansville, N. Y.
C. R. Burr & Co., Inc., Manchester, Conn.
Commercial Nursery Co., Decherd, Tenn.
Mount Arbor Nurseries, Shenandoah, Ia.
Bork Nursery, Onarga, Ill.
Curtis Nurseries, Inc., Callicoon, N. Y.
Rosedale Nurseries, Inc., Hawthorne, N. Y.

CORLISS BROS. inc. IPSWICH 10, MASS.

☐ Please send me your "Profitable Promotions" sales kit.
☐ Please include my name as a garden supply dealer who will be handling EMERALD EUONYMUS this season.

FIRM NAME _____

STREET _____

CITY _____ STATE _____

BY _____

TREE LIST FOR SPRING, 1959

HONEY LOCUST (Gleditsia triacanthos)

Moraine® Locust (Plant Patent No. 836)	Each 10 to 49	Each 50 to 249	Each 250 or more
8 to 9 ft., whips	$4.25	$3.80	$3.40
7 to 8 ft., whips	3.35	3.00	2.70
6 to 7 ft., whips	2.75	2.50	2.25
5 to 6 ft., whips	2.25	2.00	1.80
4 to 5 ft., whips	1.90	1.65	1.50

CRIMSON KING MAPLE (Plant Patent No. 735), once transplanted

	Each 10 to 49	Each 50 to 99	Each 100 to 499	Each 500 and up
5 to 6 ft., whips	$2.20	$1.70	$1.50	$1.40
4 to 5 ft., whips	1.60	1.40	1.25	1.15
3 to 4 ft., whips	1.30	1.10	1.00	.90
2 to 3 ft., whips	.95	.85	.80	.75

NORWAY MAPLE (Acer platanoides), once transplanted

	Each 100 to 249	Each 250 to 999	Each 1000 and up
8 to 9 ft., whips	$1.00	$0.95	...
7 to 8 ft., whips	.95	.90	$0.80
6 to 7 ft., whips	.90	.85	.75
5 to 6 ft., whips	.75	.70	.60
4 to 5 ft., whips	.55	.50	.40
3 to 4 ft., whips	.45	.40	.30

CRAB APPLE, Flowering	Each Per 100
Almey	
5 to 6 ft., whips	$1.00
4 to 5 ft., whips	.80
3 to 4 ft., whips	.65
Eleyi	
3 to 4 ft., br.	.75
Floribunda	
4 to 5 ft., br.	.90
3 to 4 ft., br.	.75
Hopa	
5 to 6 ft., whips	.65
4 to 5 ft., whips	.55
3 to 4 ft., whips	.45
Niedzwetskyana	
5 to 6 ft., br.	1.20
4 to 5 ft., br.	.90
Red Silver	
3 to 4 ft., br.	.75

ELM, Chinese (Ulmus pumila)	
10 ft. and up, T., well-br.	1.35
8 to 10 ft., T., well-br.	1.10
6 to 8 ft., T., well-br.	.85
5 to 6 ft., T., well-br.	.65

LOCUST (Robinia)	
Globe or **Umbrella**	
5½ to 6 ft., standards	2.75
Pink-Flowering Moss	
4½ ft., standards	2.75

MAPLE (Acer)	Each Per 100
Norway (Acer platanoides)	
6 to 8 ft., br.	$1.80
Norway, Columnar	
6 to 7 ft., whips	1.70
5 to 6 ft., whips	1.40
4 to 5 ft., whips	1.10
3 to 4 ft., whips	.90
Schwedler (Acer schwedleri)	
6 to 8 ft., br.	2.25
Silver or **Soft** (Acer dasycarpum)	
6 to 8 ft., br.	1.10
5 to 6 ft., br.	.90
PEACH, Flowering	
Helen Borchers, pink	
6 to 7 ft., br.	1.15
Red, unnamed	
3 to 4 ft., br.	.60
PLUM (Ornamental Prunus)	
Cistena	
4 to 5 ft., bush form	1.10
3 to 4 ft., bush form	.90
Blireiana, Newport and **Thundercloud**	
6 to 7 ft., br.	1.40
5 to 6 ft., br.	1.10
4 to 5 ft., br.	.85
WILLOW (Salix)	
Babylonica, Niobe and **Wisconsin**	
8 to 10 ft., br.	1.50
6 to 8 ft., br.	1.25
5 to 6 ft., br.	1.10

SHIPPING: We use combination or pool cars with stopover for distribution at points in the east and midwest during January, February and early March.

TERMS: 2% discount 10 days from date of invoice net and due first of the second month following the date of invoice.

PACKING CHARGES for boxes or bales, in addition to prices quoted, will be invoiced at cost, except packed in bulk in carlots without charge.

Our 82nd Year of Service and Quality

MILTON NURSERY CO.

P. O. Box 7 **Telephone: 451**

Milton-Freewater, Oregon

Point, Ia., will comment on "The Numerous Honey Locust Varieties."

Also scheduled for the morning session, a "Problem Panel" will have Dwight Hughes, Cedar Rapids Nursery, Cedar Rapids, Ia., and Arnold Webster, Kuehn's Nursery, Cedar Falls, Ia., as panel members. Immediately preceding lunch, "Lilies in Color" will be presented by Lloyd Cafferty, Ames Nursery, Ames.

The afternoon session will open with an address, "Landscaping Iowa Highways," by Harold Dolling, landscape engineer, Iowa highway commission, Ames. "A Review of the Yew Varieties" will be presented by Jack Hill, D. Hill Nursery Co., Dundee, Ill., and several time-lapse films in color will be shown before the conference adjourns at 4:15 Wednesday afternoon.

MASSACHUSETTS EVENT

The Massachusetts Nurserymen's Association will celebrate its 50th anniversary at its annual business meeting January 8, at the Hotel Kenmore, Boston, Mass. More than 150 member firms are expected to be represented, reports John C. Dwyer, Jr., Quincy, executive secretary, M. N. A.

In addition to the regular activities of the meeting, the honoring of nurserymen who have been members of the association for a long period will feature the occasion. Willard M. Bond, president, M. N. A., extends an invitation to attend to all nurserymen from neighboring states and to nonmembers in the state.

OHIO SHORT COURSE

Topics of interest to garden shop operators have been added this year to the 30th annual Ohio short course, scheduled at the Neil House, Columbus, January 19 to 21. The annual meeting of the Ohio Nurserymen's Association will also be held during this period. Cosponsors of the course with the department of horticulture of the Ohio State University are the Ohio Nurserymen's Association and the Ohio chapter of the National Shade Tree Conference. January 19 will be arborists' day; January 20, landscape gardeners' day; January 21, garden center operators' day, and January 22, nurserymen's day. The complete schedule of events follows:

JANUARY 19—ARBORISTS' DAY

Moderator: L. C. Chadwick.

10 a. m.—"Diagnosis of Tree and Plant Troubles," by Dr. Paul E. Tilford, executive secretary, National Arborists' Association, Wooster, O.

10:45 a. m.—"Uses of Chelated Co-

[Continued on page 36]

YOU ASKED FOR IT

A Rugged, High-Clearance, Fully Adjustable, Row Crop Tiller, Designed For Your Tillage Problems.

MILLER TRAC-TILL

Also available in 2-row models.

Check these outstanding features:

1. 50-in. width, adjustable center opening 1 to 22 ins., Rotor-Shafts telescope.
2. 24-in. clearance over row.
3. Positive depth control with front gauge wheels, quickly adjusted.
4. Smallest shaft 1⅜-in. diameter.
5. Shields adjustable—no dirt on smallest plants, leaves field level.
6. All sealed bearings—heavy-duty taper lock sprockets.
7. No. 80 roller chain drives, running in oil.
8. Spring steel tempered knives.
9. Heavy-duty clutch to protect all drive assembly.
10. No slow speed transmission required in tractor.
11. For all 3-point hitch tractors.
12. Special hitches available for other tractors.
13. Special widths and sizes available on special order.

Hundreds in use now in the Pacific northwest ! ! !

SEE THIS MACHINE AT THE CHICAGO CONVENTION.

For literature and information, write

S AND W FARM EQUIPMENT, INC.

56 S. E. Belmont St.
Portland 14, Ore.

CHOICE LINERS

		Each 100 rate	Each 1000 rate
800	**Abies concolor,** 3-yr., T., 3 to 5 ins.	$0.20	$0.15
900	**Abies concolor,** 4-yr., T., 6 to 10 ins.	.25	.20
2000	**Acer ginnala,** 1-yr., S. 10 to 12 ins.	.10	.09
800	**Acer ginnala,** 2-yr., T., 15 to 18 ins.	.20	.15
500	**Acer palmatum atropurpureum,** 1-yr., grafts	.90	..
700	**Acer palmatum atropurpureum,** 2-yr. grafts	1.25	..
3000	**Acer platanoides,** 2-yr., T., 18 to 24 ins.	.18½	.15
1000	**Acer platanoides,** whips, 7 to 8 ft.	1.75	..
500	**Althaea Coelestis,** 1-yr., grafts	.30	.25
2000	**Aronia arbutifolia,** 1-yr., S., 10 to 12 ins.	.08	.07
1500	**Aronia brilliantissima,** 1-yr., S., 10 to 12 ins.	.10	.09
2000	**Aronia melanocarpa,** 1-yr., S., 6 to 8 ins.	.08	.07
1000	**Azalea mollis,** 1-yr., T., 9 to 12 ins.	.20	.18
250	**Benzoin aestivale,** 2-yr., T.	.15	.12
2000	**Berberis Crimson Pygmy,** 2¼-in. pots	.25	.22
10,000	**Berberis thunbergi,** 2-yr., S., 9 to 12 ins.	.06	.05
5000	**Berberis thunbergi,** 2-yr., T.	.08½	.07½
1500	**Berberis thunbergi atropurpurea,** 2-yr., S., 9 to 12 ins.	.07	.06
6000	**Berberis thunbergi atropurpurea,** 2-yr., T.	.10	.09
200	**Caragana arborescens,** 2-yr., T.	.15	..
3000	**Celastrus orbiculata,** 1-yr., 8 to 10 ins.	.10	.09
3500	**Celtis occidentalis,** 1-yr., S., 6 to 8 ins.	.08	..
200	**Cercidiphyllum japonicum,** br., whips, 2 to 3 ft.	1.00	..
200	**Cercidiphyllum japonicum,** br., whips, 3 to 4 ft.	1.50	..
500	**Chamaecyparis plumosa,** 2-yr., T., 8 to 12 ins.	.30	.25
800	**Chamaecyparis plumosa aurea,** 2-yr., T., 6 to 10 ins.	.30	.25
1000	**Chamaecyparis plumosa Gold Dust,** 2-yr., T.	.30	.25
1000	**Chionanthus virginicus,** 1-yr., S., 6 to 8 ins.	.15	.12½
1300	**Chionanthus virginicus,** 2-yr., S., 12 to 15 ins.	.18	.15
2000	**Clematis paniculata,** 3-yr., T.	.40	.35
2000	**Cornus alba sibirica,** 1-yr., S., 6 to 12 ins.	.10	.08
2000	**Cornus alternifolia,** 1-yr., S., 18 to 24 ins.	.15	.12½
1000	**Cornus amomum,** 1-yr., S., 12 to 15 ins.	.10	.09
9000	**Cornus florida,** 1-yr., No. 1, S.	.06	.05
10,000	Selected understocks	.08	.07½
300	Root-pruned, 2-yr., whips, 2 to 3 ft.	.25	..
700	Root-pruned, 2-yr., whips, 3 to 4 ft.	.35	..
280	3-yr., br., 2 to 3 ft.	.75	..
500	3-yr., br., 3 to 4 ft.	1.25	..
300	**Cornus florida kelseyi,** H.W.C.	.18	.15
1000	**Cornus florida rubra,** 3-yr., grafts, TT.	2.00	1.75
2000	**Cotoneaster acutifolia,** 2-yr., S., 15 to 18 ins.	.10	.09
1000	**Cotoneaster acutifolia,** 2-yr., T., 15 to 18 ins.	.12	.10
3000	**Cotoneaster divaricata,** 1-yr., S., 18 to 24 ins.	.10	.09
2000	**Cotoneaster horizontalis,** 2¼-in. pots	.18	.16
700	3-in. pots, 9 to 12 ins.	.40	.35
1000	3-yr., T.	55	.50
3000	**Crataegus cordata,** 1-yr., S., 15 to 18 ins.	.08	.07½
1000	**Deutzia gracilis,** 2-yr., T., 6 to 9 ins.	.15	..
1500	**Deutzia gracilis rosea,** 2-yr., T.	.12	.10
1000	**Deutzia lemoinei,** 2-yr., T., 6 to 9 ins.	.12	.10
2000	**Elaeagnus angustifolia,** 1-yr., S., 12 to 15 ins.	.10	.09
200	**Elaeagnus umbellata,** 2-yr., T.	.12	..
1100	**Euonymus alatus compactus,** 2-yr., T., 6 to 9 ins.	.30	.25
1000	**Euonymus europaeus,** 1-yr., S., 4 to 6 ins.	.10	.09
3000	**Euonymus radicans coloratus,** 2-yr., T., 6 to 9 ins.	.25	.22½
5000	**Euonymus radicans vegetus,** 2-yr., T., 6 to 9 ins.	.35	.30
2000	**Euonymus radicans vegetus,** TT., F.G., 12 to 15 ins.	.75	.70
1500	**Euonymus yedoensis,** 1-yr., S., 4 to 9 ins.	.08	.07
500	**Euonymus yedoensis,** 2-yr., S., 6 to 9 ins.	.12	.10
1000	**Exochorda grandiflora,** 1-yr., 15 to 18 ins.	.10	.09
1000	**Fagus riversi,** 2-yr., grafts, 12 to 18 ins.	1.75	1.50
2000	**Fagus sylvatica,** 2-yr., T.	.15	.14
2000	**Fagus sylvatica,** understocks, 2¼-in. pots	.25	.22½
2000	**Forsythia Beatrix Farrand,** 2-yr., T.	.30	.25
500	**Forsythia intermedia,** 2-yr., T.	.10	.07½
2000	**Forsythia Lynwood Gold,** 2-yr., T.	$0.22	$0.2
800	**Forsythia spectabilis,** 2-yr., T.	.08	.0
1000	**Forsythia Spring Glory,** 1-yr., T.	.18	.1
400	**Forsythia suspensa,** 2-yr., T.	.15	.1
2000	**Ginkgo biloba,** 1-yr., S., 4 to 6 ins.	.08	.0
2000	**Hamamelis japonica,** 2-yr., T., 15 to 18 ins.	.12	.1
1500	**Hamamelis vernalis,** 1-yr., S., 8 to 10 ins.	.10	.0
1000	**Hypericum aureum,** 1-yr., S., 6 to 9 ins.	.07	.0
3000	**Hypericum Hidcote,** 2¼-in. pots	.20	.1
2000	**Ilex convexa,** 2-yr., T.	.40	.3
1000	**Ilex crenata hetzi,** 4-yr., T.	.45	
1000	**Ilex crenata,** 3-yr., T.	.35	
1500	**Ilex crenata latifolia,** 2-yr., T.	.25	
800	**Ilex rotundifolia,** 2-yr., T.	.40	.3
2000	**Ilex verticillata,** 1-yr., S.	.07½	.0
2500	**Juniperus depressa plumosa,** 2-yr., T.	.40	.3
2500	**Juniperus glauca hetzi,** 2-yr., T.	.40	.3
5000	**Juniperus glauca hetzi,** 1-yr., T.	.25	.2
500	**Juniperus hibernica,** 2-yr., T., 10 to 18 ins.	.30	.2
1000	**Juniperus pfitzeriana,** 2-yr., T.	.40	.3
1000	**Juniperus pfitzeriana glauca,** 2-yr., T.	.40	.3
500	**Juniperus sabina,** 2-yr., T.	.30	
400	**Kerria japonica,** 2-yr., T., 6 to 9 ins.	.15	.1
1000	**Koelreuteria paniculata,** 2-yr., T., 3 to 4 ft.	1.00	
1000	**Leucothoe catesbaei,** 2-yr., T.	.40	.3
2000	**Ligustrum ibota,** 2-yr., T.	.08	.0
5000	**Liquidambar styraciflua,** 1-yr., S., 6 to 9 ins.	.08½	.0
500	**Lonicera korolkowi,** 2-yr., T., 6 to 9 ins.	.12	.1
1000	**Magnolia soulangeana,** 1-yr., T., 12 to 18 ins.	.75	
1000	**Magnolia rustica rubra,** 1-yr., T., 12 to 18 ins.	.75	
2000	**Mahonia aquifolium,** 1-yr., S.	.06	.0
450	**Mahonia aquifolium,** 2-yr., S., 6 to 9 ins.	.18	.1
1000	**Malus,** whips, varieties: **Almey, atrosanguinea, eleyi, Hopa, Red Silver, Van Eseltine** 2-yr., 2 to 3 ft.	.60	
	2-yr., 18 to 24 ins.	.50	
3000	**Myrica cerifera,** 1-yr., S., 6 to 8 ins.	.09	.0
2000	**Myrica pensylvanica,** 1-yr., S., 4 to 6 ins.	.09	.0
200	**Nyssa sylvatica,** 2 to 3 ft.	1.00	
1000	**Philadelphus Atlas,** H.W.C., 10 to 12 ins.	.15	.1
1000	**Philadelphus Belle Etoile,** H.W.C., 12 to 15 ins.	.12	.1
850	**Philadelphus burfordensis,** H.W.C., 12 to 15 ins.	.15	.1
1200	**Philadelphus coronarius aureus,** 2-yr., T., 6 to 9 ins.	.25	.2
900	**Physocarpus monogynus,** 2-yr., T., 15 to 18 ins.	.12	.1
6000	**Picea excelsa,** 3-yr., S., 4 to 8 ins.	.05	.0
1600	**Picea excelsa,** 4-yr., T., 7 to 14 ins.	.10	.0
3000	**Picea excelsa,** 5-yr., T., 14 to 24 ins.	.15	.1
2000	**Picea pungens,** 3-yr., T., 2 to 4 ins.	.15	.1
1600	4-yr., T., 6 to 10 ins.	.20	.1
1100	4-yr., T., 4 to 6 ins.	.18	.1
1000	**Pieris floribunda,** 2-yr., T.	.35	
3000	**Pieris japonica,** 1-yr., T.	.15	.1
4000	2-yr., T.	.35	.3
1500	3-yr., T.	.45	.4
1000	**Pieris japonica,** pink, 3-yr., T.	.55	.5
2000	**Pinus nigra,** 3-yr., T., 4 to 8 ins.	.15	
3000	**Pinus strobus,** 4-yr., T., 6 to 12 ins.	.15	.1
500	**Pinus sylvestris,** 3-yr., S., 3 to 6 ins.	.10	
1000	**Pinus thunbergi,** 3-yr., S., 6 to 12 ins.	.12	.1
4000	**Pinus thunbergi,** 3-yr., T., 5 to 10 ins.	.18	.1
200	**Prunus Amanogawa,** 1-yr., whips, 2 to 3 ft.	.75	
300	**Prunus Kwanzan,** 1-yr., whips, 18 to 24 ins.	.50	
400	**Prunus serrulata Fugenoz (Veitch),** 3-yr., T., whips	1.00	.9
2500	**Prunus tomentosum,** 1-yr., S.	.10	.0
5000	**Pseudotsuga douglasi,** 4-yr., T., 6 to 10 ins.	.15	.1
3200	4-yr., T., 7 to 14 ins.	.16	.1
1000	5-yr., T., 10 to 18 ins.	.18	.1
700	**Pyracantha lalandi,** 3-in. pots, 9 to 12 ins.	.35	.3

—SPRING, 1959

		Each 100 rate	Each 1000 rate
500	**Quercus palustris,** TT., 2 to 3 ft.	$0.30	..
3000	**Quercus phellos,** 1-yr., 15 to 18 ins.	.15	$0.12
500	**Quercus rubra,** T., 18 to 24 ins.	.25	..
2000	**Rhamnus frangula,** 1-yr., 8 to 10 ins.	.08	.07½
900	**Rhodotypos kerrioides,** 1-yr., 10 to 12 ins.	.10	.09
2000	**Rosa setigera,** 1-yr., T., 15 to 18 ins.	.10	.07½
1600	**Sophora japonica,** 1-yr., 10 to 12 ins.	.15	.12½
2000	**Sorbus aucuparia,** 2-yr., T.	.25	.20
400	2-yr., whips, 3 to 4 ft.	.50	..
300	2-yr., whips, 4 to 5 ft.	.75	..
230	2-yr., whips, 5 to 6 ft.	1.00	..
2000	**Spiraea Anthony Waterer,** 2-yr., T., 6 to 9 ins.	.15	..
1000	**Spiraea callosa alba,** 2-yr., T., 4 to 6 ins.	.12	.10
1200	**Spiraea thunbergi,** 2-yr., T., 8 to 10 ins.	.12	.10
1200	**Stephanandra incisa crispa,** 2¼-in. pots	.25	.22½
1100	**Symphoricarpos chenaulti,** 2-yr., T., 6 to 9 ins.	.12	.10
400	**Symphoricarpos vulgaris,** 2-yr., T., 6 to 9 ins.	.10	.09
400	**Syringa vulgaris,** 2-yr., T., 6 to 9 ins.	.12	..
3000	**Taxus capitata,** from seed, 4-yr., T.	.45	.40
5000	2-yr., T.	.40	.35
2000	3-yr., TT.	.45	.40
1200	4-yr., TT.	.60	.55
2000	5-yr., TT.	.80	.75
1000	**Taxus cuspidata,** 2-yr., S.	.10	.09
3000	**Taxus cuspidata,** 2-yr., T.	.30	.27½
1500	3-yr., TT.	.40	..
1800	4-yr., TT.	.60	.55
2200	**Taxus cuspidata andersoni,** 2-yr., T.	.30	.27½
2000	5-yr., TT.	.65	.60
1700	**Taxus cuspidata bakeri,** spreading, 2-yr., T., 5 to 9 ins.	.30	.27½
2500	**Taxus cuspidata, Barnes variety,** 2-yr., T., 5 to 10 ins.	.30	.27½
3000	**Taxus cuspidata brevifolia,** 1-yr., bands	.25	.22
2200	**Taxus cuspidata browni,** 2-yr., T.	.30	.27½
500	**Taxus cuspidata browni,** 4-yr., TT.	.60	.55
1100	**Taxus cuspidata columnaris,** 2-yr., T., 4 to 8 ins.	.30	.27½
1400	**Taxus cuspidata nana,** 2-yr., T.	.30	.27½
2000	**Taxus cuspidata nana erecta,** 2-yr., T.	.30	.27½
3000	**Taxus densiformis,** 2-yr., T.	.30	.27½
1200	**Taxus densiformis,** 3-yr., T.	.45	.40
1100	**Taxus fastigiata,** 2-yr., T., 5 to 10 ins.	.30	.27½
2500	**Taxus Halloran strain,** 2-yr., T.	.30	.27½
1500	**Taxus Halloran strain,** 4-yr., TT.	.60	.55
2000	**Taxus Halloran strain,** 5-yr., TT.	.65	.60
2000	**Taxus intermedia hunnewelliana,** 2-yr., T.	.30	.27½
2500	**Taxus intermedia,** spreading, 2-yr., T.	.30	.27½
2800	**Taxus intermedia,** upright, 2-yr., T., 5 to 9 ins.	.30	.27½
2500	**Taxus media hatfieldi,** 2-yr., T.	.30	.27½
1000	**Taxus media hatfieldi,** 3-yr., T.	.45	.40
1400	**Taxus media hatfieldi,** spreading, 2-yr., T.	.30	.27½
2500	**Taxus media hicksi,** 2-yr., T.	.30	.27½
1800	3-yr., T.	.40	.37½
1000	5-yr., TT.	.75	..
3000	**Taxus Moon's columnaris,** 2-yr., T.	.30	.27½
1000	**Taxus Moon's columnaris,** 4-yr., TT.	.60	.55
2000	**Taxus thayerae,** 2-yr., T.	.30	.27½
500	**Thuja occidentalis,** 3-yr., T., 4 to 8 ins.	.18	..
600	**Thuja occidentalis,** 4-yr., T., 12 to 18 ins.	.30	.25
1000	**Thuja occidentalis boothi,** 2-yr., T., 8 to 12 ins.	.30	.25
1400	**Thuja occidentalis compacta,** 2-yr., T., 8 to 12 ins.	$0.30	$0.25
250	**Thuja occidentalis douglasi,** 2-yr., T., 10 to 14 ins.	.30	.25
340	**Thuja occidentalis elegantissima,** 2-yr., T., 8 to 12 ins.	.30	.25
1500	**Thuja occidentalis nigra,** 2-yr., T., 9 to 15 ins.	.30	.25
2000	**Thuja occidentalis nigra,** 2-yr., TT.	.45	.40
1475	**Thuja occidentalis pyramidalis,** 2-yr., T., 9 to 15 ins.	.30	.25
300	**Thuja occidentalis wareana,** 2-yr., T., 9 to 12 ins.	.30	..
1000	**Thuja occidentalis woodwardi,** 2-yr., T.	.35	..
2000	**Tilia cordata,** 1-yr., S., 12 to 15 ins.	.12	.10
2000	**Tsuga canadensis,** 4-yr., T.	.40	.37½
1000	**Tsuga canadensis,** 5-yr., TT., 10 to 15 ins.	.75	.70
2800	**Tsuga caroliniana,** 3-yr., T.	.35	.30
2000	**Viburnum acerifolium,** 1-yr., S., 10 to 12 ins.	.12	.10
3000	**Viburnum americanum (trilobum),** 2-yr., T., 18 to 24 ins.	.15	.12½
1000	**Viburnum carlesi,** 1-yr., S., 15 to 18 ins.	.25	.22½
800	**Viburnum carlesi compacta** (new), 2-yr. grafts	1.50	1.25
2000	**Viburnum cassinoides,** 1-yr., S., 6 to 8 ins.	.15	..
8500	**Viburnum dentatum,** 1-yr., S., 6 to 9 ins.	.10	.09
1800	**Viburnum dilatatum,** 1-yr., S., 15 to 18 ins.	.12	.10
2000	**Viburnum lantana,** 1-yr., S., 6 to 9 ins.	.10	.09
500	**Viburnum molle,** 2-yr., S., 6 to 9 ins.	.15	.12½
1500	**Viburnum opulus,** 1-yr., S., 12 to 15 ins.	.12	..
2000	**Viburnum opulus nanum,** 2¼-in. pots	.18	.15
1800	**Viburnum setigerum,** 1-yr., 6 to 8 ins.	.12	.10
1600	1-yr., 8 to 10 ins.	.15	.12
800	1-yr., 10 to 12 ins.	.18	.15
400	**Viburnum sieboldi,** 1-yr., S., 9 to 12 ins.	.25	..
1000	**Vitex macrophylla,** H.W.C., 10 to 12 ins.	.20	.18
600	**Weigela Eva Rathke,** H.W.C., 15 to 18 ins.	.15	.12½
1000	**Weigela vaniceki,** H.W.C., 15 to 18 ins.	.25	.20

POT GRAFTS

Pot grafts for shipment after May 1, 1959.

	Each 100 rate
Acer dissectum atropurpureum	$0.75
Acer palmatum atropurpureum	.65
Cedrus atlantica glauca	.60
Chamaecyparis obtusa gracilis	.50
Chamaecyparis obtusa gracilis nana	.60
Cornus florida alba plena	.50
Cornus florida Prosser, new red variety	.65
Cornus florida rubra	.50
Juniperus, in varieties	.50
Juniperus sargenti	.60
Picea moerheimi	1.00
Thuja occidentalis pyramidalis	.45
Thuja orientalis aurea nana	.45
Viburnum bitchiuense	.50
Viburnum carlesi	.45
Viburnum burkwoodi	.45
Viburnum chenaulti	.45
Viburnum juddi	.50
Viburnum plicatum grandiflorum	.45

ease note—This list of lining-out stock is accurate as of November 15, 1958. Please send in orders soon as possible to avoid disappointent. 30 of a variety takes the 100 rate, excepting deciduous seedlings, which are bunched in lots of 25. There will be an additional charge r less than 30 of a variety. This list cancels all previous lining-out lists. Usual terms. We are wholesale only.

We will be very glad to quote you on your B&B Taxus requirements.

D. ROBINSON SALES AGENCY, WALLINGFORD, CONN.

"A friendly, efficient service"

SHRUBS! SHRUBS! SHRUBS!

Western New York's best growing season in years has produced the finest-quality shrubs available on the market.

If your order is placed in time we may be able to include in a pool car to your area and save transportation costs.

	Each
CARYOPTERIS	
Blue Mist	
No. 1	25c
DEUTZIA	
Gracilis	
18 to 24 ins.	37c
15 to 18 ins.	32c
Gracilis rosea	
2 to 3 ft.	40c
18 to 24 ins.	35c
Lemoinei	
18 to 24 ins.	32c
15 to 18 ins.	27c
EUONYMUS	
Alatus compactus	
12 to 15 ins.	50c
Patens	
18 to 24 ins.	50c
Vegetus	
12 to 15 ins.	60c
FORSYTHIA	
Lynwood Gold	
18 to 24 ins.	30c
Spectabilis	
2 to 3 ft.	25c
18 to 24 ins.	20c
Spring Glory	
3 to 4 ft.	30c
18 to 24 ins.	20c
HYDRANGEA	Each
Domotoi	
No. 1	40c
Nikko	
No. 1	40c
Medium	35c
P. G.	
3 to 4 ft.	37c
2 to 3 ft.	32c
PHILADELPHUS	
Aureus	
18 to 24 ins.	50c
12 to 15 ins.	30c
9 to 12 ins.	25c
POTENTILLA	
Gold Drop	
15 to 18 ins.	30c
12 to 15 ins.	25c
Kathryn Dykes	
18 to 24 ins.	35c
15 to 18 ins.	30c
RHUS	
Cotinus	
3 to 4 ft.	50c
18 to 24 ins.	35c
SPIRAEA	
Japonica coccinea	
12 to 15 ins.	30c
Thunbergi	
2 to 3 ft.	25c
Vanhouttei	
18 to 24 ins.	22c
VIBURNUM	
Tomentosum plicatum	
18 to 24 ins.	60c
Tomentosum	
2 to 3 ft.	30c

Send for complete list of varieties and sizes and our list of berry plants and grapevines.

CONGDON'S WHOLESALE NURSERY

North Collins, N. Y.

TAXUS SUITABLE FOR POTTING

(F.O.B. Cheshire, Conn.)

Suitable for potting for immediate resale. Good tops and bottoms. 5 and 6-year-old field-grown, husky, twice-transplanted material. Available in the following varieties:

UPRIGHT TYPES

Taxus cuspidata columnaris
Taxus cuspidata nana erecta
Taxus cuspidata fastigiata
Taxus media hatfieldi
Taxus media hicksi
Taxus intermedia, upright
Taxus Wyman, hedge form
Taxus wellesleyana

SPREADING TYPES

Taxus cuspidata, Barnes variety
Taxus cuspidata bakeri, very compact
Taxus cuspidata Cheshire No. 1, low spreading type
Taxus media Halloran, haystack type
Taxus media hunnewelliana, vase-shaped spreader

PRICES:

Medium Grade	Each 10 rate	Each 100 rate	Heavy Grade	Each 10 rate	Each 100 rate
9 to 12 ins.	$1.10	$1.00	9 to 12 ins.	$1.50	$1.40
12 to 15 ins.	1.35	1.25	12 to 15 ins.	1.60	1.50

30 or more plants take the 100 rate; less than 30 at 10 rate.

E. D. ROBINSON SALES AGENCY

Wallingford, Conn.

"A Friendly, Efficient Service"

TAXUS

In varieties,
certified for western shipment.

BULK'S NURSERIES

610 W. Montauk Hwy. **Babylon, N. Y.**

pounds in Horticulture," by Dr. Edwin J. Haertl, Dow Chemical Co., Midland, Mich.

12 noon — Luncheon and business meeting, Ohio chapter, National Shade Tree Conference.

2:15 p. m.—"Personnel and Public Relations," by F. Earle Martin, Cedarvale Tree Experts, Ltd., Toronto, Ont., Canada.

3 p. m.—"Combination Businesses for the Arborist," by Ray Gustin, Jr., Landscape and Tree Service, Rockville, Md.

3:45 p. m.—Panel discussion, "Personnel, Office and Business Management," by F. Earle Martin, Paul E. Tilford and Ray Gustin, Jr.

6:30 p. m.—Dinner and entertainment. Address: "Ohio State Parks," by V. W. Flickinger, chief of the division of parks, department of natural resources, Columbus, O.

JANUARY 20
LANDSCAPE GARDENERS' DAY

Moderator—K. W. Reisch, department of horticulture, Ohio State University.

9 a. m.—"Consider the Plant," by K. W. Reisch.

9:30 a. m.—"Problems in Highway Beautification," by Oliver Deakin, parkway and landscaping engineer, state highway department, Trenton, N. J.

10:30 a. m.—"Policies of Landscape Development of Ohio Highways," by Wilbur J. Garmhausen, chief landscape architect, department of highways, Columbus, O.

12 noon—Luncheon and business meeting, Ohio State Floriculture Alumni Association.

2 p. m.—"Plants Unlimited," by L. C. Chadwick.

3 p. m.—"Landscape Design for Suburban Areas," by Robert Goetz, landscape architect, Goetz Nursery, Inc., St. Louis, Mo.

8 p. m.—"European Landscaping," by G. Walter Burwell, Burwell Nursery & Garden Center, Columbus, O.

JANUARY 21
GARDEN CENTER OPERATORS' DAY

Moderator: L. C. Chadwick.

9 a. m.—"Garden Center Design and Layout," by Ernest Wertheim, landscape design and consultation, San Francisco, Calif.

10 a. m.—"Inventory Control," by Joe L. Strickfaden, Strickfaden Nursery, Sandusky, O.

12 noon—Luncheon and business meeting, Ohio Nurserymen's Association.

2 p. m.—Selling and Promotion in Garden Centers:

"Principles of Effective Promotion and Selling," by Morris L. Mayer, department of business organization, O. S. U.

"Public Relations in Garden Center Operation," by Ray Gustin, Jr., Landscape and Tree Service, Rockville, Md.

"Pricing and Merchandising," by Lawrence F. Palmeter, Breck's Home & Garden Centers, Milburn, N. J.

6:30 p. m.—Meeting of Ohio State University-Ohio Nurserymen's Association research committee.

8 p. m.—Nurserymen's Association hospitality party.

JANUARY 22—NURSERYMEN'S DAY

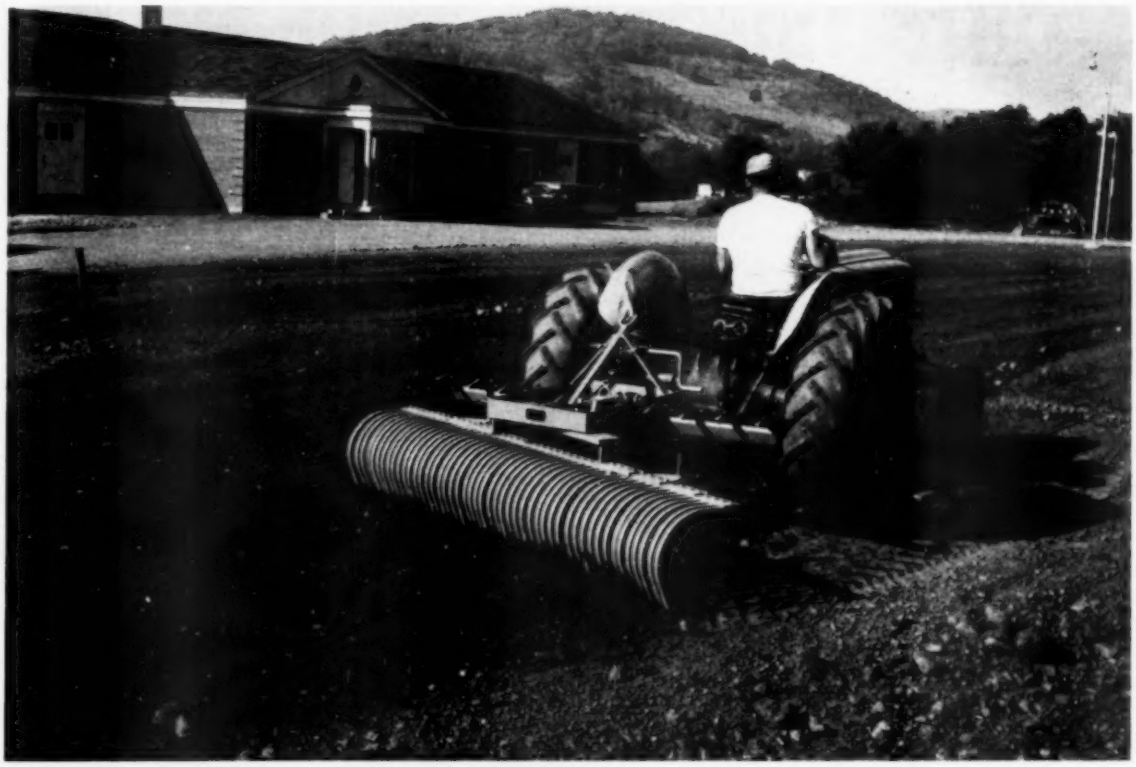
Moderator: K. W. Reisch.

9 a. m.—"Equipment for Nurserymen," by James I. E. Ilgenfritz, Ilgenfritz Nurseries, Inc., Monroe, Mich.

9:30 a. m.—Business meeting, Ohio Nurserymen's Association.

10:15 a. m.—Round-table discussions: "Ohio Agricultural Experiment Station

GET THIS COMBINATION!



YORK RAKE with SCARIFIER

breaks up hard-packed ground—rakes, grades, levels, removes stones—in one operation

Above photo shows the YORK RAKE finishing new hospital grounds prior to seeding. York is the best known and most widely used mechanical landscaping rake. Ruggedly constructed for year after year of trouble-free service. Properly designed to do all landscaping jobs—from rough grading, spreading of topsoil and removal of roots, stones, debris to final raking. Now with the new SCARIFIER (shown at right in working position), this combination is the only tool you need to do all landscaping jobs. SCARIFIER travels ahead of rake . . . penetrates up to 6 ins. . . . breaks up ridges and hard-packed ground . . . provides loose material for rake to work. Blade is also available for ditching, terracing, backfilling.

The YORK RAKE with SCARIFIER permits smaller landscape men to bid on the big jobs — parks, athletic fields, school grounds, industrial sites, golf coures, outdoor theaters, etc., as well as making more profit on residential jobs.

Fits all tractors with standard 3-point hitch. Other models for lighter tractors.

New literature describes the tremendous advantages of owning a YORK RAKE with SCARIFIER. Send coupon today!

York
MODERN CORPORATION
UNADILLA, NEW YORK

YORK MODERN CORP.
Dept. N-91
Unadilla, N. Y.

Rush full information on the YORK RAKE with SCARIFIER.

I own a ..... tractor.
(make) (model)

Name .....

Street .....

City..... Zone... State.....

PIONEER MANUFACTURER OF MECHANICAL RAKES

PINE — SPRUCE — FIR

Seedlings and Transplants

	Per 100	Per 1000
Norway Spruce (Picea excelsa)		
(2-0), 2-yr., S., 2 to 3 ins.	$ 7.00	$18.00
(2-0), 2-yr., S., 3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T., 5 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 6 to 12 ins.	12.00	60.00
(2-2), 4-yr., T., 8 to 14 ins.	16.00	90.00
Scotch Pine (Pinus sylvestris)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	12.50
(2-0), 2-yr., S., 3 to 6 ins.	5.00	14.00
(2-0), 2-yr., S., 4 to 8 ins.	6.00	20.00
(3-0), 3-yr., S., 8 to 15 ins.	8.00	25.00
(2-0), 4-yr., T., 6 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 8 to 14 ins.	15.00	60.00
Blue Spruce (Picea pungens) (Colorado Blue Spruce)		
(2-0), 2-yr., S., 2 to 3 ins.	4.00	20.00
(2-0), 2-yr., S., 3 to 4 ins.	6.00	25.00
(3-0), 3-yr., S., 3 to 4 ins.	8.00	30.00
(3-0), 3-yr., S., 4 to 6 ins.	10.00	40.00
Austrian Pine (Pinus nigra)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	20.00
(2-0), 2-yr., S., 3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T., 5 to 10 ins.	15.00	70.00
White Spruce (Picea alba), excellent blue-gray color		
(2-0), 2-yr., S., 3 to 6 ins.	5.00	25.00
(3-0), 3-yr., S., 4 to 8 ins.	6.00	30.00
(3-0), 3-yr., S., 5 to 10 ins.	10.00	45.00
Concolor Fir (Abies concolor)		
(2-0), 2-yr., S., 2 to 3 ins.	8.00	....
(2-0), 3-yr., S., 3 to 6 ins.	10.00	....
(3-0), 3-yr., S., 4 to 8 ins.	15.00	....
Douglas Fir		
(2-0), 2-yr., S., 2 to 3 ins.	6.00	25.00
(2-0), 3-yr., S., 3 to 5 ins.	8.00	35.00

Discount: Less 5% on quantities of 5000 or more of a kind.
Order 100 at 100 rate; 1000 at the 1000 rate.
Special prices on large quantities. Write us.

PALLACK BROS. NURSERIES, INC.
R. D. 1 **Harmony, Pa.**

ILEX CONVEXA

One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

18 to 24 ins.	$3.00
24 to 30 ins.	3.75
30 to 36 ins.	5.50
3 to 3½ ft.	6.50

ANGELICA NURSERIES
R. D. No. 1 **Mohnton, Pa.**

PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

	Per 100 Prepaid	Per 1000 F.O.B. here	Per 1000 for 5000 or more in same shipment
Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade	$6.00	$50.00	$47.50

Available for prompt shipment throughout the year. Shipments anywhere including Canada. GOOD PACKING FREE. **A good source of supply.**

PEEKSKILL NURSERY **Phone: Lakeland 8-5595**
SHRUB OAK, N. Y.

MAXWELL, BOWDEN AND RICE, INC.
Growers of Fine Nursery Stock
WHOLESALE ONLY
Roses — Shrubs — Fruit Trees — Ornamentals — Vines — Hedge
Geneva, N. Y. — Phone: 8131

NORTHERN-COLLECTED
Hemlocks, Ferns, Wild Flowers
Trees, Shrubs
ISAAC LANGLEY WILLIAMS
EXETER, N. H.

AZALEAS AND HEDGE PLANTS
Splendid stock.
Write for Price List.
DIAMOND STATE NURSERIES
MILFORD, DEL.

Recommendations on Lawn Grasses and Management, Weed Control, Container Production of Nursery Stock, Propagation Practices." Moderator: K. W. Reisch, assisted by Dr. Donald D. Bondarenko and Dr. Richard Davis, department of agronomy, Ohio agricultural experiment station.

"Flowering Crab Apples." Moderator: L. C. Chadwick, assisted by Henry A. Ross, Gardenview Nursery, Strongsville, O.; Jack Siebenthaler, Siebenthaler Co., Dayton, O., and Robert C. Simpson, Simpson Orchard Co., Vincennes, Ind.

"Nursery Equipment." Moderator: James L. Caldwell, department of horticulture, O. S. U., assisted by James I. E. Ilgenfritz; Thomas B. Kyle, Springhill Nursery Co., Tipp City, O., and Harry E. Malter, Greening Nursery Co., Monroe, Mich.

11:45 a. m.—Luncheon and business meeting, Ohio chapter No. 1, American Association of Nurserymen.

2 p. m.—"Washington Report on the Nursery Industry," by Richard P. White, executive vice-president, American Association of Nurserymen, Washington, D. C.

2:45 p. m.—"Diagnosis of Plant Troubles," by Dr. A. D. Partridge, United States Department of Agriculture, central states forest experiment station, Columbia, Mo.

3:30 p. m.—Panel on "Pest Control." Dr. C. W. Ellett, department of botany and plant pathology, O. S. U.; Dr. R. B. Neiswander, department of zoology and entomology, Ohio agricultural experiment station; Dr. R. H. Davidson, department of zoology and entomology, O. S. U., and Dr. A. D. Partridge.

6:45 p. m.—Cocktails.

7:30 p. m.—Annual "Ye Olde Tyme Dinner" and entertainment.

CONNECTICUT COURSE

The seventh annual Connecticut nurserymen's short course will be held in the college of agriculture auditorium at the University of Connecticut, Storrs, January 21 and 22, 1959. The 2-day session will be devoted to a diversified program touching all phases of the nursery industry. Topics include foliar analysis, production, container stock, rhododendrons, dwarf fruit trees, landscape planting, garden centers, advertising, pricing and storage.

Speakers of the first morning session will be Dr. Fred Emmert, plant nutrition specialist, University of Connecticut, who will discuss "Foliar Analysis," and Case Hoogendoorn, Newport, R. I., who will describe "Production Practices to Meet Specific Markets."

The first talk of the afternoon session will be "Care of Container-Grown Plants," to be given by Henry Verkade, Jr., Verkade's Nurseries, New London, Conn. The second afternoon speaker will be Dr. Robert Ticknor, Waltham field station, Waltham, Mass., speaking on "Northern-Grown Azaleas and Rhododendrons." Arthur Bobb, extension fruit specialist at the University of Connecticut, will be the last

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate
Azalea mollis (Chinese Azalea) Flame shades, mixed		
6 to 8 ins., 2-yr., T.	$0.22	$0.18
8 to 10 ins., 2-yr., T.	.35	.30
8 to 12 ins., 3-yr., T.	.45	.40
Azalea Ghent pontica, pastel shades Very hardy.		
2 to 4 ins., 2-yr., T.	.30	.28
4 to 6 ins., 3-yr., T.	.35	.32
6 to 10 ins., 3-yr., T.	.45	..
Azalea mucronulatum, lavender		
4 to 8 ins., 2-yr., T.	.35	.32
8 to 10 ins., 3-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	.50
Buxus sempervirens welleri (Weller's Hardy Boxwood)		
4 to 6 ins., 2-yr., T.	.28	.25
6 to 8 ins., 2-yr., T.	.35	.32
8 to 10 ins., 3-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	.50
Chamaecyparis filifera aurea (Golden Thread Cypress)		
8 to 10 ins., 3-yr., T.	.45	..
Chamaecyparis lawsoniana allumi Columnar, blue.		
8 to 10 ins., 2-yr., T.	.30	.28
10 to 12 ins., 3-yr., T.	.45	..
12 to 18 ins., 3-yr., T.	.55	..
Chamaecyparis plumosa aurea (Golden Plumed Cypress)		
6 to 8 ins., 2-yr., T.	.35	.30
8 to 10 ins., 3-yr., T.	.40	.35
10 to 15 ins., 3-yr., T.	.50	.45
Chamaecyparis squarrosa, mossy, green foliage		
8 to 12 ins., 3-yr., T.	.35	..
Cotoneaster horizontalis (Rock Spray)		
4 to 6 ins., 3-yr., T.	.25	.22
6 to 10 ins., 3-yr., T.	.38	.32
Euonymus fortunei coloratus Procumbent broad-leaved evergreen creeper.		
8 to 12 ins., 2-yr., T.	.25	.22
12 to 18 ins., 3-yr., T.	.35	.32
Euonymus fortunei erectus (Big-leaved Winter Creeper)		
10 to 15 ins., 3-yr., T.	.35	.30
12 to 18 ins., 3-yr., T.	.45	.42
Euonymus radicans vegetus (Evergreen Winter Creeper) Orange berries.		
8 to 10 ins., 2-yr., T.	.35	..
10 to 15 ins., 3-yr., T.	.45	..
12 to 18 ins., 4-yr., T.	.50	..
Euonymus alatus (Winged Euonymus)		
4 to 6 ins., 3-yr., S.	.18	.15
6 to 10 ins., 3-yr., S.	.25	..
10 to 15 ins., 3-yr., S.	.38	..
Ilex crenata (Japanese Holly), pyramidal		
6 to 8 ins., 1-yr., T.	.25	.20
8 to 10 ins., 2-yr., T.	.35	.32
10 to 15 ins., 3-yr., T.	.48	.45
12 to 18 ins., 3-yr., T.	.65	.60
Ilex crenata convexa (bullata) (Box-leaved Holly)		
6 to 8 ins., 1-yr., T.	.25	.22
8 to 10 ins., 2-yr., T.	.38	.35
10 to 12 ins., 2-yr., T.	.48	.45
12 to 15 ins., 3-yr., T.	.65	.55
12 to 18 ins., 5-yr., field-row spaced	1.00	.90
Ilex crenata hetzi An improved form of convexa.		
6 to 8 ins., 2-yr., T.	.30	.28
8 to 10 ins., 2-yr., T.	.40	.38
10 to 15 ins., 3-yr., T.	.55	.50
Ilex crenata helleri (Heller's Dwarf Holly)		
3 to 6 ins., 2-yr., T.	.35	..
4 to 8 ins., 3-yr., T.	.45	..
Ilex rotundifolia (Round-leaved Japanese Holly)		
6 to 8 ins., 1-yr., T.	$0.25	$0.22
8 to 10 ins., 2-yr., T.	.38	.35
10 to 12 ins., 2-yr., T.	.48	.45
12 to 18 ins., 3-yr., T.	.60	.50
12 to 18 ins., 5-yr., T., field-row spaced	1.00	.90
Juniperus Andorra (Purple Andorra Juniper)		
6 to 8 ins., 1-yr., T.	.30	..
8 to 10 ins., 3-yr., T.	.45	.40
10 to 12 ins., 3-yr., T.	.50	.45
12 to 15 ins., 4-yr., T.	.60	.55
Juniperus canadensis aurea (Golden Canadian Juniper), spreader		
4 to 6 ins., 1-yr., T.	.25	..
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 3-yr., T.	.45	..
Juniperus glauca hetzi (Hetz Juniper)		
8 to 12 ins., 2-yr., T.	.35	.30
10 to 12 ins., 3-yr., T.	.40	.35
12 to 15 ins., 3-yr., T.	.55	.48
12 to 18 ins., 3-yr., T., cut back	.65	.60
Juniperus hibernica fastigiata (Compact Irish Juniper)		
8 to 10 ins., 2-yr., T.	.35	.30
10 to 12 ins., 2-yr., T.	.38	.33
12 to 18 ins., 3-yr., T.	.45	.40
Juniperus horizontalis glauca Blue-green spreader. Very low.		
6 to 8 ins., 2-yr., T.	.35	.32
8 to 10 ins., 2-yr., T.	.40	..
10 to 15 ins., 3-yr., T.	.50	..
Juniperus pfitzeriana		
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.55	.50
Juniperus pfitzer'ana compacta Nelson variety blue spreader.		
6 to 8 ins., 3-yr., T.	.35	.30
8 to 10 ins., 4-yr., T.	.45	.40
10 to 12 ins., 3-yr., T.	.55	.50
12 to 15 ins., 4-yr., T.	.65	.55
Juniperus pfitzeriana aurea (Golden Pfitzer Juniper)		
8 to 10 ins., 2-yr., T.	.40	..
10 to 12 ins., 2-yr., T.	.50	.45
12 to 15 ins., 3-yr., T.	.60	.55
Juniperus squamata meyeri (Meyer's Juniper), blue-green		
6 to 8 ins., 2-yr., T.	.40	..
8 to 12 ins., 3-yr., T.	.50	.45
Juniperus stricta (Spiny Greek Juniper)		
6 to 8 ins., 2-yr., T.	.40	..
8 to 12 ins., 3-yr., T.	.48	..
12 to 15 ins., 3-yr., T.	.55	..
Koelreuteria paniculata (Golden-Rain Tree)		
5 to 12 ins., 3-yr., field, T.	.22	.18
12 to 24 ins., 4-yr., field, T.	.35	.32
Leucothoe catesbaei (Drooping Leucothoe)		
8 to 10 ins., 3-yr., T.	.35	.30
10 to 12 ins., 3-yr., T.	.45	..
12 to 15 ins., 3-yr., T.	.55	..
Liquidambar styraciflua (Sweet Gum)		
2-yr., S., bed run	.10	.08
10 to 15 ins., 2-yr., S.	.12	.10
12 to 18 ins., 3-yr., T.	.20	.18
18 to 30 ins., 3-yr., T.	.25	.22
Picea pungens (Colorado Blue Spruce)		
4 to 6 ins., 4-yr., T.	.20	.18
6 to 8 ins., 4-yr., T.	.30	.28
Pieris japonica (Japanese Andromeda)		
6 to 8 ins., 2-yr., T.	$0.35	$0.32
8 to 10 ins., 3-yr., T.	.45	.40
Pinus mugo (Dwarf Mugho Pine)		
3 to 5 ins., 3-yr., T.	.20	.18
5 to 8 ins., 4-yr., T.	.25	.20
Pinus nigra (Austrian Pine)		
5 to 10 ins., 4-yr., T.	.15	.10
8 to 12 ins., 5-yr., T.	.22	.18
10 to 15 ins., 5-yr., T.	.28	.22
Pyracantha coccinea lalandi (Firethorn)		
6 to 8 ins., 2-yr., T.	.32	.30
8 to 12 ins., 2-yr., T.	.40	.38
Rhododendron Hybrid, various colors Seedling-grown from red plants, very hardy.		
3 to 5 ins., 3-yr., T.	.45	..
5 to 8 ins., 4-yr., T.	.55	..
8 to 10 ins., 4-yr., T.	.85	..
10 to 15 ins., 4-yr., T.	1.00	..
Rhododendron catawbiense (Catawba Rhododendron)		
2 to 4 ins., 3-yr., T.	.35	..
4 to 8 ins., 3-yr., T.	.45	..
Rhododendron maxima		
2 to 4 ins., 3-yr., T.	.35	..
4 to 8 ins., 3-yr., T.	.45	..
8 to 12 ins., 3-yr., T.	.50	..
Sophora japonica (Japanese Pagoda Tree)		
4 to 8 ins., 2-yr., T.	.25	.20
10 to 15 ins., 3-yr., T.	.35	..
Taxus capitata (Upright Japanese Yew), seed-grown		
4 to 6 ins., 3-yr., T.	.35	.30
6 to 8 ins., 4-yr., T.	.40	.35
8 to 10 ins., 4-yr., T.	.50	.48
10 to 15 ins., 4-yr., T.	.75	.65
Taxus cuspidata (Spreading Yew)		
6 to 8 ins., 2-yr., T.	.38	.35
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T., cut back	.55	.45
Taxus media hicksi (Hicks' Yew)		
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 2-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	..
Thuja occidentalis douglasi aurea (Geo. Peabody Arborvitae) Golden pyramid.		
6 to 8 ins., 2-yr., T.	.35	.32
8 to 10 ins., 3-yr., T.	.45	..
10 to 12 ins., 3-yr., T.	.55	..
Thuja occidentalis elegantissima lutea Foliage golden tipped over dark green.		
6 to 8 ins., 2-yr., T.	.35	.30
8 to 10 ins., 3-yr., T.	.40	.35
10 to 12 ins., 3-yr., T.	.45	.40
12 to 15 ins., 4-yr., field, T.	.55	.50
15 to 24 ins., 4-yr., T.	.65	..
Thuja occidentalis globosa (Woodward Globe Arborvitae)		
6 to 8 ins., 1-yr., T.	.28	..
8 to 10 ins., 2-yr., T.	.40	.35
10 to 12 ins., 3-yr., T.	.48	.45
12 to 15 ins., 3-yr., T.	.55	..
Thuja occidentalis pyramidalis		
10 to 12 ins., 2-yr., T.	.45	..
12 to 15 ins., 3-yr., T.	.55	..
15 to 18 ins., 4-yr., T.	.65	.55
18 to 24 ins., 4-yr., T.	.70	.65
Tsuga canadensis (Hemlock)		
6 to 8 ins., 3-yr., T.	.35	..
8 to 10 ins., 4-yr., T.	.40	..
10 to 15 ins., 4-yr., T.	.55	.50
Viburnum opulus nanum (Dwarf Bush Cranberry)		
2-yr., field, T.	.25	.22
4 to 8 ins., 3-yr., T.	.35	.32
6 to 10 ins., 4-yr., T., very bushy	.45	.42

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise ⅓ deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

Write for our complete price list.

PALLACK BROS. NURSERIES, INC. (31 mi. north of Pittsburgh, Pa., on Rt. 19)

Phone: Zelienople 789 (or 644 evenings) (We are not open Sundays) R. D. 1, HARMONY, PA.

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas—well-budded, sheared, heavy stock, excellent foliage—over 200,000 for spring delivery. (All B&B)

Azalea Gable
Louise Gable, double pink
Rose Bud, double pink
Rose Greeley, white

	Each
6 ins.	$0.75
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50
24 ins.	6.50

Azalea Kurume
Addy Wery, deep vermilion

6 ins.	.75
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50

Amoena, purple-red
Apple Blossom, shell-pink
Coral Bells, pink
Daybreak, light pink
Favorite, deep rosy-pink
Hinodegiri, very dark red
Hino-Crimson, crimson
Maxwelli, red
Orange Beauty, orange
Polaris, double white
Snow, white

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins. (Hinodegiri only)	5.00
30 ins.	6.00
36 ins.	7.50

Azalea Knempferi—hardiest of all azaleas
Carmen, large, rose-colored
Fedora, pink
Louise, red
Othello, brick-red
Salmon Beauty, salmon-colored

	Each
8 ins.	$0.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

Azalea Vuykiana
Beethoven, mauve, waved petals
Johann Strauss, single rose, blotched
Ledifolia Alba, white
Lilacina, fragrant, lilac-colored
Mollis, pink, yellow, orange

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

Rooted Cuttings $50.00 per 1000.

Our azalea beds are treated for shipment outside Japanese beetle zone.

BAIER LUSTGARTEN NURSERIES
Jericho Turnpike, Middle Island, L. I., N. Y.
Telephone: YAphank 4-3444
Write for Catalog.

TAXUS
UPRIGHT and SPREADING
HYBRID LILACS and FLOWERING CRAB APPLES
VANDERBROOK NURSERIES, INC.
MANCHESTER, CONN.
QUALITY MERCHANDISE AT REASONABLE PRICES

LEUCOTHOE CATESBAEI
A good broad-leaved evergreen that grows in dense shade; Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with azaleas and rhododendrons. Fine for flower arrangements.

4 to 6 ins., T	15c each
6 to 8 ins., T	20c each
8 to 10 ins., T	25c each

Can be transplanted now.
Free packing.
Send for list of unusual plants.
ALANWOLD NURSERY
Neshaminy, Bucks Co., Pa.

TAXUS AND OTHER LINERS
For Fall or Spring Shipment
— also —
Container-grown plants for immediate pickup.
B&B Taxus for fall or spring shipment, certified for western shipment.
VERKADE'S NURSERIES
New London, Conn.

EVERGREENS
300 acres of choice Evergreens ready for immediate resale
Write for list.
GARDNER'S NURSERIES, Inc.
ROCKY HILL, CONN.

Growers of a general line of nursery stock.
Visitors welcome.
FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, Erie Co., PA.

SHEPARD NURSERIES
Growers and Distributors of
ORNAMENTAL NURSERY STOCK
Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

speaker of the afternoon, addressing the nurserymen on the subject "Dwarf Fruit Trees."

The evening program will start off with the new A. A. N. film, "Basic Techniques of Home Landscaping." Following this, Harold O. Perkins, associate professor of landscape design, University of Connecticut, will give an illustrated presentation on "Landscape Planting — New Plants and New Uses of Old Plants." The guest speaker of the evening will be John J. Pinney, Willis Nursery Co., Ottawa, Kan., presenting an illustrated talk on "Garden Centers."

The first speaker of the second day's program, January 22, will be Clifford Corliss, Corliss Bros., Inc., Gloucester, Mass., who will discuss "Effective Nursery Advertising." Mr. Pinney will then address the group once more, this time on the universally interesting topic "Prices and Profits." The second afternoon session will be devoted to the subject of "Cold Storage," with George Harris, Princeton Nurseries, Princeton, N. J., as speaker.

PROGRAM AT NASHVILLE

Sunday, January 31, the first day of the convention to be held by the Tennessee Nurserymen's Association at the Dinkler-Andrew Jackson hotel, Nashville, will be devoted to registration and to an evening social hour, according to the tentative program released recently. The convention will continue through Tuesday, February 2, and events are scheduled as follows:

MONDAY, FEBRUARY 1

10 a. m.—Call to order, by President B. R. Allison, Highland Rim Nursery, Nashville. Roll call, announcements and appointment of committees.

10:45 a. m.—"Report from the Department of Agriculture," by E. B. Moss, commissioner, Tennessee department of agriculture.

11:15 a. m.—"Legislative Problems of Tennessee Nurserymen," by T. N. A. legislative committee: Richard Jones, Nashville; H. R. Potter, Joelton; Archie Cultra, Rives; Robert Boyd, McMinnville, and Baxter Valentine, Cosby.

12 noon—Lunch.

2 p. m.—Tour.

6:30 p. m.—Barbecue.

9 p. m.—"Yellow Dog" session.

TUESDAY, FEBRUARY 2

9 a. m.—"Report from the University," by Dr. B. S. Pickett, department of horticulture, University of Tennessee, Knoxville.

9:30 a. m.—Address by American Association of Nurserymen representative.

10:30 a. m.—"Weather and the Nurseryman," by a representative from the United States weather bureau.

11:15 a. m.—Report by H. L. Bruer, state entomologist.

11:30 a. m.—Session on nursery brands.

12 noon—Lunch.

2 p. m.—Business meeting: Committee

On the left—
This picture illustrates our strong well-established potted liners of **Biota Berckmans aurea nana** in 2½-in. pots and **Juniperus pfitzeriana** in 2¼ and 2½-in. pots.

On the right—
This view illustrates a block of our **Juniperus glauca hetzi,** several times sheared and well-filled.

Our methods of clean cultivation and soil conservation denote quality production. Come see for yourself.

On the left—
This view illustrates one of our blocks of sheared specimens of **Juniperus pfitzeriana.**

We also have available a good supply of **Juniperus pfitzeriana compacta** and **Juniperus pfitzeriana nana,** well-sheared specimens.

Note our classified ad offering lining-out stock in this issue.

To all nurserymen who are attending the annual convention of the Illinois Nurserymen's Association: We cordially invite you to visit and see our display in booth spaces 46, 47 and 48, 19th floor at the Hotel La Salle, January 12, 13 and 14, 1959.

Represented by Herman and Hazel Owen and Dave Hill

T. G. OWEN & SON, INC.

Wholesale Nurserymen

P. O. Box 946 **Telephone: Fairfax 8-3123** **Columbus, Miss.**

ACT NOW!

Propagation of grafted stock for spring delivery will soon get under way. To insure covering your needs for the coming season place your order **NOW.**

Grafted Stock for Spring, 1959, Delivery.

Grafts are normally ready for shipment after April 15. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	10	100
Acer palmatum atropurpureum	$7.50	$65.00
Acer palmatum dissectum atropurpureum	7.50	65.00
Acer rubrum columnare	7.50	65.00
Acer saccharum monumentale	7.50	65.00
Cedrus atlantica glauca	7.50	65.00
Chamaecyparis obtusa compacta	6.00	50.00
Chamaecyparis obtusa gracilis	6.00	50.00
Cornus florida alba plena	6.50	55.00
Cornus florida pendula	7.50	65.00
Cornus florida rubra	6.50	55.00
Cornus florida rubra Prosser.	7.50	65.00
Cornus kousa chinensis	6.50	55.00
Fagus sylvatica riversi	6.50	55.00
Hamamelis mollis	6.50	55.00
Ilex opaca femina Arden	7.50	65.00
Ilex opaca mascula Hookstraw	7.50	65.00
Juniperus chinensis columnaris glauca Miss Helen	6.50	55.00
Juniperus chinensis columnaris viridis	6.50	55.00
Juniperus chinensis keteleeri	6.50	55.00
Juniperus chinensis neaboriensis	6.50	55.00
Juniperus chinensis sargenti	6.50	55.00
Juniperus chinensis sargenti glauca	6.50	55.00
Juniperus sabina vonehron	6.50	55.00
Juniperus scopulorum Blue Haven	6.50	55.00
Juniperus squamata meyeri	6.50	55.00
Juniperus virginiana burki	6.50	55.00
Juniperus virginiana canaerti	$6.50	$55.00
Juniperus virginiana elegantissima	6.50	55.00
Juniperus virginiana glauca	6.50	55.00
Juniperus virginiana globosa	6.50	55.00
Juniperus virginiana kosteriana	6.50	55.00
Juniperus virginiana pyramidiformis hilli	6.50	55.00
Juniperus virginiana schotti	6.50	55.00
Magnolia rustica rubra	7.50	65.00
Magnolia soulangeana	7.50	65.00
Magnolia soulangeana nigra	7.50	65.00
Magnolia stellata	7.50	65.00
Magnolia stellata rubra	7.50	65.00
Magnolia stellata Water Lily	7.50	65.00
Parrotia persica	6.50	55.00
Pinus cembra	7.00	60.00
Thuja occidentalis douglasi spiralis	5.50	45.00
Thuja occidentalis elegantissima Mary Corey	5.50	45.00
Thuja occidentalis lutea Geo. Peabody	5.50	45.00
Thuja occidentalis nigra	5.50	45.00
Thuja occidentalis pyramidalis	5.50	45.00
Thuja occidentalis rosenthali	5.50	45.00
Thuja occidentalis wareana (sibirica)	5.50	45.00
Thuja orientalis aurea nana	5.50	45.00
Thuja orientalis conspicua	5.50	45.00
Thuja orientalis elegantissima	5.50	45.00
Tsuga canadensis pendula	6.50	55.00

Prices F.O.B. Mountain View, N. J.

Terms to those of established credit—25% down for C.O.D. Packing extra at cost. 25 at 100 rate, 250 at 1000 rate. Minimum order $10.00 due to handling costs.

QUALITY LINING-OUT STOCK SINCE 1922

HESS' NURSERIES P. O. Box No. 128 Wayne, N. J.

FIFTY THOUSAND OWN-ROOT RHODODENDRONS

A wide range of hardy varieties in one, two and three-year plants. Come and see for yourself, to compare quality and prices, or just come and talk rhododendrons, if you prefer.

WELLS NURSERY
P. O. Box 141 Red Bank, N. J.
Phone: SHadyside 1-0180

NURSERY STOCK

	Per 100	Per 1000
Red-leaved Barberry		
2-yr., S., 9 to 12 ins.	$ 6.50	$50.00
2-yr., S., 12 to 18 ins.	10.00	75.00
Row run, 9 to 18 ins.	7.50	60.00
Cornus florida (White Dogwood)		
1-yr., S., budding size.	6.00	50.00
1-yr., S., below budding size	4.50	35.00

Ask for list.

BROUWER'S NURSERIES
Box 25 New London, Conn.

GROW ECCLES PINE - SPRUCE FIR

Christmas Tree — Reforestation Seedlings — Transplants

Scotch Pine Seedlings, 2 years old, as low as $5.00 per 1000.

Write for our new spring prices.

ECCLES NURSERIES
Box 65A Rimersburg, Pa.

Hardy Mountain-Grown Seedlings for Christmas Tree Planting
Attractive Discounts on Quantities.
Write for price list.
WESTON'S NURSERY
R. D., Fallentimber, Pa.

For Quality Stock
RICKERT NURSERIES
Successor to Moon's
Established 1767
MORRISVILLE, PA.

reports, election and installation of officers and selection of next meeting place.

6:30 p. m.—Refreshments.

7:30 p. m.—Buffet dinner.

NEW JERSEY FEATURES

Again divided into two parts, the winter meeting of the New Jersey Association of Nurserymen will be held January 22 and 23 at the Chalfonte-Haddon Hall hotel, Atlantic City, N. J., with a third day's program scheduled for January 29 at the Hotel Hildebrecht, Trenton, N. J. Events arranged for the three days are as follows:

JANUARY 22

10 a. m.—Roll call.

10:10 a. m.—"Iron Will Not Cure All Chlorosis," by Richard S. Zimmerman, nurseryman's research fellow, department of ornamental horticulture, Rutgers University, New Brunswick, N. J.

10:30 a. m.—"Picking the Right Systemic," by Dr. Clyde C. Hamilton, department of entomology, Rutgers University.

12 noon—Buffet lunch, Dutch treat.

2 p. m.—"Taxes in the Agricultural Picture," by Herbert Voorhees, president, New Jersey farm bureau.

3 p. m.—"Labor Problems in Agricultural Distribution," by George R. Hoffmire, executive vice-president, food producers' council.

4 p. m.—Report of the nominating committee.

4:15 p. m.—Introduction of exhibitors.

5 p. m.—Cocktail hour, Dutch treat.

7 p. m.—Annual banquet. Address: "African Safari," (illustrated) by William P. Howe, Jr., Howe Nurseries, Pennington, N. J.

JANUARY 23

9:45 a. m.—President's address.

10 a. m.—Committee reports and association business.

Discussion and vote on establishing New Jersey Horticultural Foundation, Inc.

11:30 a. m.—"The A. A. N. and You," by Curtis Porterfield, secretary, American Association of Nurserymen.

12:30 p. m.—Lunch.

"Cooperative Plant Exploration — A New Program Sponsored by Longwood Gardens," (illustrated) by Dr. Walter H. Hodge, Longwood Gardens, Kennett Square, Pa.

2:30 p. m.—"What Makes a Salesman?" by Earl Helsel, Prudential Life Insurance Co.

3:30 p. m.—Election and installation of officers.

4:15 p. m.—Adjournment.

JANUARY 29

9:45 a. m.—Registration.

10 a. m.—"Nematodes—Truth and Fiction," by Dr. Martin Hutchinson, department of entomology, Rutgers University, and Ellis McCoy, New Jersey department of agriculture.

11 a. m.—"Keeping New Jersey Nurseries Clean," by William Boyd, director, division of plant industry, and William W. Metterhouse, supervisor of nursery inspection, New Jersey department of agriculture.

11:45 a. m.—"New Jersey's 4-H Program in Ornamental Horticulture," by Donald S. Lacey, Rutgers University.

12:30 p. m.—Lunch. Presentation of citations.

2 p. m.—"Wake Up and Sell," by Prof.

ORIENTAL MAGNOLIAS

ALL OUR ORIENTAL MAGNOLIAS SHOULD BE SHIPPED OUT BEFORE FEBRUARY FIRST. They come into flower and growth buds soon after and would be harder to transplant. If you have some place like a bulb cellar where you can keep them above freezing, yet cold enough so they won't start new growth, you can hold them fine. 38 to 45 degrees is about perfect.

MAGNOLIA ALEXANDRINA. Strong, upright grower. Large flowers, dark purplish-pink outside, and white inside. A very nice Magnolia.

MAGNOLIA RUSTICA RUBRA. Large flowers of dark reddish-purple. Very fast grower and excellent variety. Later bloomer than Soulangeana.

MAGNOLIA SOULANGEANA. Very hardy, fast-growing and one of the most sought-after plants for use all over the United States.

MAGNOLIA SOULANGEANA NIGRA. Dark purple. A late bloomer and not quite so hardy as Soulangeana.

Prices of Above Oriental Magnolias	Per 100	Per 1000
8 to 12 ins., 2-yr., liners, B.R.	$35.00	$300.00
12 to 18 ins., 2-yr., liners, B.R.	40.00	350.00
18 to 24 ins., 2-yr., liners, B.R.	45.00	400.00
	Per 10	Per 100
3 to 4 ft., field-grown, budded, B. R.	$17.50	$160.00
3 to 4 ft., field-grown, budded, B&B	22.50	200.00
4 to 5 ft., field-grown, budded, B&B	30.00	250.00
5 to 6 ft., field-grown, budded, B&B	40.00	350.00

MAGNOLIA STELLATA (Star Magnolia). Dwarf growing variety, very hardy. Heavy producer of pinkish waterlily-type flowers.

Prices of Magnolia stellata	Per 100	Per 1000
6 to 8 ins., 2-yr., liners, B.R.	$30.00	$250.00
8 to 12 ins., 2-yr., liners, B.R.	35.00	300.00
12 to 15 ins., 2-yr., liners, B.R.	40.00	350.00

CONTAINER-GROWN STOCK

Our container-grown nursery stock is the very best quality produced in the south. We have given very careful attention to soil mixture, feeding, watering and general care. Being able to offer this wonderful stock is our reward. We are very proud of this container-grown stock and justly so. Early ordering will help us and will assure you a much better selection.

FATSHEDERA (Tree Ivy). Large, foliage dark green. Very decorative plant.

GARDENIA FORTUNEI. Blooms heavily in late spring and has some flowers all summer. Very popular.

GARDENIA MYSTERY. Very good grower, larger flower than any other and hardy.

GARDENIA RADICANS. Very popular dwarf-growing Gardenia. Blooms so profusely that hardly a leaf can be seen when in full bloom.

HYPERICUM HIDCOTE. Very hardy prostrate variety. Large, waxy, golden flowers practically all summer.

ILEX CORNUTA BURFORDI. Beautiful, showy Chinese Holly. Our plants are all grown from berry-bearing stock.

ILEX CRENATA BULLATA (Convexa). Dwarf-growing holly with glossy, convex foliage. Very nice, hardy plant.

ILEX CRENATA BUXIFOLIA. Real nice new holly with round dark green foliage.

ILEX CRENATA ROTUNDIFOLIA. Large green foliage, very hardy and probably the most popular crenata today.

ILEX GLABRA. Fast-growing, upright ilex. Nice for use in borders and hedges.

ILEX OPACA EAST PALATKA. Fast-growing, upright holly with light green foliage.

ILEX VOMITORIA (Schilling's Dwarf). Very nice Yaupon introduced recently and proven very popular.

JUNIPERUS CHINENSIS BLUE VASE. Very handsome vase-shaped Juniper that grows more upright than most. Very popular.

JUNIPERUS CHINENSIS PFITZERIANA. Still one of the very best.

JUNIPERUS DEPRESSA PLUMOSA (Andorra Juniper). Nice spreading Juniper, bright green in growing season and bronze in winter.

LIGUSTRUM LUCIDUM COMPACTUM (Wax Privet). Very useful dark green broad-leaved evergreen. We have an excellent strain of this variety.

MAGNOLIA GRANDIFLORA (Bull Bay). One of the most popular shade trees of the south; growing also up the eastern shore.

OSMANTHUS FRAGRANS (Sweet Olive). Very prolific bloomer and is very fragrant.

PINES (Slash). Fastest-growing pine of the south. Makes a nice shade for lawns.

All the above stock has been grown in one-gallon containers for one year, or longer.

Prices of Above Container-Grown Stock	Per 100	Per 1000
One-gallon, EACH	60c	55c

250 plants or more of one variety and size take the 1000 rate.

For full truckloads, we can arrange for very economical transportation. Available trucks can haul from 4200 to 4500 one-gallon container-grown plants—door-to-door delivery—at a very low cost.

LINING-OUT STOCK

When we established this nursery in 1938, we decided to specialize in lining-out stock. We have done this and are known as the producer of the highest-quality liners available in this section. Whether it be Azaleas, Ilex, Magnolias or any other nursery stock we grow, we produce the best. We urge you to consider us when in need of any stock we list.

	Per 100	Per 1000
BUXUS HARLANDI.		
4 to 6 ins.	$10.00	$ 90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
BUXUS JAPONICA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
BUXUS SEMPERVIRENS		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
CAMELLIA SASANQUA		
CLEOPATRA		
6 to 8 ins.	15.00	140.00
DAINTY PINK (our new seedling)		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
DAYDREAM		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
JEAN MAY		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
TEXAS STAR		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
12 to 18 ins.	20.00	180.00
CHERRY LAUREL		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
CLEYERA JAPONICA		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
CORNUS FLORIDA (White Dogwood)		
8 to 12 ins.	9.00	80.00
FATSHEDERA (Tree Ivy)		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	15.00	140.00
GARDENIA FORTUNEI		
8 to 12 ins.	10.00	90.00
12 to 18 ins.	12.00	110.00
GARDENIA MYSTERY		
8 to 12 ins.	$10.00	$ 90.00
12 to 18 ins.	12.00	110.00
GARDENIA RADICANS		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
ILEX CORNUTA BURFORDI		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
ILEX CRENATA BULLATA		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	140.00
ILEX CRENATA BUXIFOLIA		
4 to 6 ins.	15.00	140.00
ILEX CRENATA DIVARICATA		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
ILEX CRENATA REPANDENS		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
ILEX CRENATA ROTUNDIFOLIA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
* 10 to 12 ins., field-grown	35.00	300.00
* 12 to 15 ins., field-grown	40.00	350.00

* These field-grown plants are real heavy. They are grown in the nursery row and have been cut back with electric clippers many times. They are ideal for 3-gallon cans or can be used on small landscape jobs.

ILEX GLABRA		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
ILEX OPACA FOSTERI		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
ILEX VOMITORIA (Schilling's Dwarf)		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
JUNIPERUS CHINENSIS BLUE VASE		
4 to 6 ins.	$12.00	$110.00
6 to 8 ins.	15.00	140.00
JUNIPERUS CHINENSIS PFITZERIANA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
LIGUSTRUM LUCIDUM COMPACTUM		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	15.00	140.00
LONICERA YUNNANENSIS (Low Honeysuckle)		
8 to 12 ins.	10.00	90.00
MAGNOLIA GRANDIFLORA (Bull Bay)		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
12 to 18 ins.	17.00	150.00
18 to 24 ins.	20.00	180.00
NANDINA DOMESTICA		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	17.00	150.00
OSMANTHUS FRAGRANS (Sweet Olive)		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
PITTOSPORUM TOBIRA		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
PODOCARPUS SINENSIS (Jap Yew)		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
PYRACANTHA COCCINEA LALANDI		
3-in. peat pots	17.50	150.00
RETINOSPORA ERICOIDES		
8 to 12 ins.	12.00	110.00

250 plants or more of one variety and size take the 1000 rate.

BLACKWELL NURSERIES, Semmes, Ala.

÷ LINERS ÷

TAXUS—YEW

Rooted cuttings are available from May on.

300 at 1000 rate.
Minimum of 100 of each variety at the 1000 rate.
(4 to 6 ins., 6c each per 1000 rate)
(6 to 8 ins., 7c each per 1000 rate)
*(4 to 6 ins., 7c each per 1000 rate)
*(6 to 8 ins., 8c each per 1000 rate)

	Each Per 10	Each Per 100
Media kelseyi (Kelsey Berrybush Yew)		
Rooted cuttings, 4 to 6 ins.	$0.10	$0.07
Rooted cuttings, 6 to 8 ins.	.11	.08
Media hicksi (Hicks' Anglojap Yew)		
Rooted cuttings, 4 to 6 ins.	.10	.07
Rooted cuttings, 6 to 8 ins.	.11	.08
1-yr., X, 4 to 6 ins.	.17	.13
1-yr., X, 6 to 8 ins.	.20	.15
2-yr., XX, 6 to 8 ins.	.30	.25
Media hatfieldi (Hatfield Anglojap Yew)		
Rooted cuttings, 4 to 6 ins.	.10	.07
Rooted cuttings, 6 to 8 ins.	.11	.08
1-yr., X, 4 to 6 ins.	.17	.13
1-yr., X, 6 to 8 ins.	.20	.15
2-yr., XX, 4 to 6 ins.	.30	.25
2-yr., XX, 6 to 10 ins.	.35	.30
Media brownii (Brown's Anglojap Yew)		
Rooted cuttings, 4 to 6 ins.	.10	.07
Rooted cuttings, 6 to 8 ins.	.11	.08
1-yr., X, 4 to 6 ins.	.17	.13
Baccata repandens (Spreading English)		
Rooted cuttings, 4 to 6 ins.	.10	.07
Rooted cuttings, 6 to 8 ins.	.11	.08
1-yr., X, 4 to 6 ins.	.17	.13
Cuspidata (Spreading Japanese Yew)		
Rooted cuttings, 4 to 6 ins.	$0.10	$0.07
Rooted cuttings, 6 to 8 ins.	.11	.08
1-yr., X, 4 to 6 ins.	.17	.13
1-yr., X, 6 to 8 ins.	.20	.15
2-yr., XX, 6 to 8 ins.	.30	.25
2-yr., XX, 10 to 12 ins.	.35	.30
Vermeulen (Vermeulen Yew)		
Rooted cuttings, 4 to 6 ins.	.10	.07
Rooted cuttings, 6 to 8 ins.	.11	.08
1-yr., X, 4 to 8 ins.	.20	.15
Brevifolia (Dwarf Japanese Yew)		
Rooted cuttings, 4 to 6 ins.	.10	.07
Rooted cuttings, 6 to 8 ins.	.11	.08
Intermedia (Spreading Type)		
Rooted cuttings, 4 to 6 ins.	.10	.07
Rooted cuttings, 6 to 8 ins.	.11	.08
1-yr., X, 4 to 6 ins.	.17	.13
2-yr., XX, 6 to 8 ins.	.30	.25
2-yr., XX, 8 to 10 ins.	.35	.30
***Densiformis** (Dense Japanese Yew)		
Rooted cutings, 4 to 6 ins.	.11	.08
Rooted cuttings, 6 to 8 ins.	.12	.09
1-yr., X, 4 to 6 ins.	.18	.17
JUNIPERUS		
Hetzi glauca (Blue Hetz Juniper)		
Rooted cuttings, 6 to 8 ins.	.11	.09
Chinensis pfitzeriana		
Rooted cuttings, 6 to 8 ins.	.11	.09
1-yr., X, 6 to 8 ins., bedded	.23	.18

Terms and conditions of sale: Packing is free when cash is sent with order. 25% cash sent with order, balance plus packing charges paid C.O.D. 5% cash discount on all orders with full payment. Price list sent on request.

WOODFERN NURSERY
Woodfern Rd. Neshanic Station, N. J.
Phones: FOxcroft 9-4284 - 4108

FOR 57 YEARS
Our business has been growing
Rhododendrons
Azaleas
Perennials, Roses
All Nursery Items
BOBBINK NURSERIES, INC.
586 Paterson Ave.
E. RUTHERFORD, N. J.

LINING-OUT STOCK
IN WIDE ASSORTMENT
Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.
DEERFIELD NURSERIES
DEERFIELD, N. J.

QUALITY STOCK GROWN BY US
Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).
Seedlings and transplants.
DANEGGER'S HI-WAY NURSERY, INC.
P. O. Box 336 MILFORD, DEL.

TAXUS IN VARIETY
2-year Transplants
Write for list.
IMPERIAL NURSERIES
P. O. Box 1000
East Hartford, Conn.

TOP-QUALITY
PINE—SPRUCE—FIR
Seedlings and Transplants
Write for price list.
SAM DIBLE NURSERY
Shelocta, Pa.

NORTHERN COLLECTED EVERGREENS
FERNS
PLANTS
SHRUBS
WILLIAM CROSBY HORSFORD
CHARLOTTE, VT.

TAXUS LINERS
2-yr. transplants in many varieties.
Write for list.
LEGHORN'S EVERGREEN NURSERIES CO., INC.
50 Geer St. Cromwell, Conn.

DECIDUOUS AND EVERGREEN TREES AND SHRUBS
Outstanding assortment.
Write for Wholesale Price List.
LOVETT'S NURSERY, INC.
LITTLE SILVER, N. J.

Hollies NOTHING BUT RETAIL QUALITY.
3 to 12 IN. CONTAINER-GROWN
AMERICAN - ENGLISH - CHINESE
Native American Holly Farms
115 S. PENN ST. MANHEIM, PA.

BOULEVARD NURSERIES
Newport, R. I.
- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

Robert L. Smith, chairman, department of marketing, Syracuse University, Syracuse, N. Y.

4 p. m.—Adjournment.

A separate program arranged for the ladies attending the first two days of the meeting at Atlantic City begins with a buffet luncheon at 12 noon January 22. Featured also for the ladies on that day are two trips, one to Brighton Farm, a well-known New Jersey orchid-growing establishment, at 1:30 p. m., and another, at 3 p. m., to the Fisher Greenhouses, an outstanding African violet producing firm. Preceding the annual banquet that evening there will be a cocktail hour in the Mandarin room. January 23 there will be a luncheon at 12:30 p. m. in the West room, with a slide-illustrated talk, "Cooperative Plant Exploration," by Dr. Walter H. Hodge, and a feature, "Broadway Parade," by Mrs. Helen Metzler, scheduled for 2:30.

PENNSYLVANIA PROGRAM

The tentative program for the annual meeting of the Pennsylvania Nurserymen's Association, at the Penn Sheraton hotel, Pittsburgh, Pa., January 29 and 30, has been given as follows by Wilbur I. Nisley, secretary of the group:

JANUARY 28

1 p. m.—Executive board meeting, Grant room, club floor.

6:30 p. m.—Past president's banquet, Club room, club floor.

6 p. m.—Registration.

8:30 p. m.—Hospitality night, Terrace room.

Exhibitors may set up booths after 6 p. m. in Duquesne room, 17th floor.

JANUARY 29

9 a. m.—Business meeting, appointment of nomination committee. A. A. N. film, "Basic Techniques of Home Landscaping," Monongahela room.

10 a. m.—Round-table discussions on landscape designing, large tree moving and retail sales garden market.

11:30 a. m.—Summation of round-table discussions, by moderators.

12:30 p. m.—Group luncheon in the Urban room. Welcoming address by Howard B. Stewart, county commissioner of Allegheny county.

2 p. m.—President's address and report from Valleau C. Curtis, Callicoon, N. Y., vice-president and director of region 1, American Association of Nurserymen.

2:30 p. m.—Frank Curto, horticulturist for the city of Pittsburgh. Subject: "Indoor Container Planting."

3:30 p. m.—Report from Washington office, by Dr. Richard P. White, executive vice-president, A. A. N.

4 p. m.—A. A. N. chapter meeting.

4:30 p. m.—Cocktail hour.

6:30 p. m.—Banquet, school awards and nurseryman of year award. Entertainment in the Urban room.

JANUARY 30

9 a. m.—Nomination of officers for 1959; business meeting, Monongahela room.

10 a. m.—Prof. Carl Wilde, deputy secretary of Pennsylvania highways,

Increase Production with

Jiffy-Pots

MADE OF PEAT

FASTER GROWTH

Nursery stock reaches salable size at least 20 per cent faster. Propagators report that 3-year-old stock which was started in Jiffy-Pots is fully equal to 4-year stock started in clay pots — the same space can produce 4 Jiffy-Potted crops in the time it took to grow 3 clay-potted crops. A big part of this saving comes at field planting time. **Liners need not be root bound to transplant successfully,** but can be set out after only a few weeks in Jiffy-Pots. Also, since they carry a blanket of moist peat right with them, **field planting can be extended further into warm dry weather.**

REDUCED HANDLING COSTS

Pot-handling chores are all but eliminated, which leads to greatly **increased efficiency.** To quote Bill Flemer of Princeton Nurseries, Princeton, N. J.: "This past spring a truckload of plants came to the field in clay pots instead of in Jiffy-Pots. The planting crew had to stop their routine, knock the plants out of the clay pots, pick up the pots, haul them back to the shed, store them, etc. It was so disrupting and so great a delay that we are really convinced **it is much cheaper to buy a new Jiffy-Pot for every use."** P.S. The old clay pots were not sterilized either!

Taxus in 2¼-in. Jiffy-Pot

NO TRANSPLANT SHOCK

Since the **root system is completely enclosed in peat,** it takes its entire greenhouse environment right with it to the field. Therefore, **no shock from root disturbance.** This attribute comes into sharp focus with hard-to-transplant crops. Peter G. Zorg, Cartwright Nurseries, Collierville, Tenn., used 100,000 Jiffy-Pots on one such difficult crop, Ilex burfordi. Whereas Mr. Zorg formerly had much difficulty getting Ilex burfordi to survive transplanting, his problem is now about solved and he plans to **use Jiffies on Photinia, Magnolias, several conifers and other tough-to-transplant items.**

Jiffy-Pots now available in 8 sizes/shapes for '59

ROUNDS

No. 115, 1½-in. Round Per 1000

3000 to 18,000	$5.90
21,000 to 72,000	5.40
75,000 and up	4.90

Sold in cases of 3000. 18 lbs. per case. Minimum order 3000.

No. 122, 2¼-in. Round Per 1000

3000 to 18,000	$7.25
21,000 to 72,000	6.75
75,000 and up	6.25

Sold in cases of 3000. 35 lbs. per case. Minimum order 3000.

No. 130, 3-in. Round Per 1000

1500 to 9000	$13.25
10,500 to 49,500	12.25
51,000 and up	11.00

Sold in cases of 1500. 35 lbs. per case. Minimum order 1500.

SQUARES

No. 222, 2¼-in. Square Per 1000

2500 to 17,500	$7.50
20,000 to 72,500	7.00
75,000 and up	6.50

Sold in cases of 2500. 35 lbs. per case. Minimum order 2500.

No. 230, 3-in. Square Per 1000

1000 to 9000	$14.50
10,000 to 49,000	13.25
50,000 and up	12.00

Sold in cases of 1000. 25 lbs. per case. Minimum order 1000.

No. 240, 4-in. Square Per 1000

500 to 4500	$27.50
5000 to 19,500	25.50
20,000 and up	23.50

Sold in cases of 500. 35 lbs. per case. Minimum order 500.

SHORTIES

No. 330, 3-in. Shorty Per 1000

1500 to 9000	$13.00
10,500 to 49,500	12.00
51,000 and up	10.75

Sold in cases of 1500. 33 lbs. per case. Minimum order 1500.

No. 335, 3½-in. Shorty Per 1000

1000 to 6000	$18.25
7000 to 29,000	17.00
30,000 and up	15.25

Sold in cases of 1000. 35 lbs. per case. Minimum order 1000.

Prices NET. Prepaid in lots of 150 lbs. or more anywhere in the continental United States excluding Alaska. Otherwise F.O.B. West Chicago: Bayonne, N. J.; Allentown, Pa.; Toledo, O.; Houston, Tex.; Los Angeles and San Francisco, Calif.; Portland, Ore.

WEST CHICAGO, ILL.
TELEPHONE 299

Geo. J. Ball

GEO. J. BALL, INC.

In Bud and Bloom for Spring Sales

THE TREE PEONY

Pot-grown plants available throughout the spring at **$3.25** each and up, for 2-year-old plants. Place your order early.

Ask for Wholesale Price List

VANDER POL TREE PEONY GARDENS

Fairhaven, Mass.

BIG We have one of the largest available supplies of big spaciman material, including:

HYBRID RHODODENDRON
- TSUGA CANADENSIS
- GINKGO BILOBA
- AZALEA
- ILEX BUXIFOLIA
- ILEX OPACA
- TAXUS FASTIGIATA
- TAXUS REPANDENS
- TAXUS CUSPIDATA

For 41 years one of America's leading nurseries

TOWSON NURSERIES INC.

Office and Nurseries
P. O. BOX 175, COCKEYSVILLE, MD.

SEND FOR FREE CATALOG

Pikes Peak

CHRISTMAS TREES ★ SHADE TREES
Seedlings & Transplants
Ornamentals & Roses
Nurseries Indiana, Pa.
Dept. A P. O. BOX 670

speaking on "Future Landscaping of the Keystone State Highways."

10:45 a. m.—Mrs. Ernest N. Calhoun, president, Pennsylvania roadside council, presenting a film, "Highway Dollars and Sense."

11:30 a. m.—Election of officers.

12 noon—Lunch.

1:30 p. m.—A representative of the General Electric Co. speaking on "Outdoor Garden Lighting."

2:30 p. m.—Howard A. Weibel, manager, garden chemical section of E. I. DuPont de Nemours & Co., Inc., speaking on "Retail Merchandising of Garden Products."

Unfinished business and presentation of newly elected officers.

Adjournment.

SOUTHERN INSTITUTE

Nutrition will be the topic of the southern California nurserymen's institute scheduled for January 27 at the University of California at Los Angeles. This subject was selected by a planning committee of nurserymen and county farm advisers of the University of California. The subject will be thoroughly developed through a series of talks in the morning covering field growing, canned stock growing, maintenance in the retail nursery yard, and the preparation and conditioning of plants for retail sale. Question and answer panels will be held in the afternoon.

Because the need for high-level training for the nursery industry and related fields is recognized, there will be a discussion of the education facilities and opportunities within the university.

The nurserymen's committee, appointed by Willis Stribling, past president, California Association of Nurserymen, consists of Peter Mordigan, chairman, Mordigan Evergreen Nurseries, San Fernando; R. E. Whitney, Ladera Garden Shop, Torrance; Jack Westcott, Paul J. Howard's California Flowerland, Los Angeles, and Henry Ishida, Union Nursery, Gardena. Farm advisers for the university present at the planning meeting were john Stark and Wayne Morgan, Los Angeles county; Jack Bivins, Santa Barbara county, and Chet Hemstreet, San Bernardino county. Seward Besemer, San Diego county, sent a letter indicating the desires of San Diego county nurserymen.

Mr. Mordigan called a second meeting of the nurserymen's committee to plan a publicity campaign. Committeemen will visit C. A. N. chapter meetings throughout southern California to urge chapter members to get ready for the question and answer periods and encourage them to bring to those sessions their problems and questions in this broad field.

The morning program will feature

Stop Your Losses With Pierson Root-Pruned Balled and Burlapped Material

The best varieties for road stand trade and garden centers. We have these **TAXUS** to offer:

CAPITATA, 15 to 18 ins.
CAPITATA, 18 to 24 ins.
NANA ERECTA, 15 to 18 ins.
HALLORAN, 15 to 18 ins.
HICKSI, 15 to 18 ins.
HICKSI, 18 to 24 ins.
MOONI, 15 to 18 ins.
STOVEKENI, 18 to 24 ins.
ANDERSONI, 15 to 18 ins.

— Also —

THUJA NIGRA, 2½ to 3 ft.
HEMLOCK, 18 to 24 ins.
2 to 2½ ft.
2½ to 3 ft.

Write us for prices.

A. N. PIERSON, INC.
Cromwell, Conn.
Phone:
Middletown, DIamond 7-2511

HOLLY SOCIETY OF AMERICA

Those interested may obtain full information on activities of the society, membership dues, etc., by writing Charles A. Young, Jr., Secy., Bergner Mansion, Baltimore, Md.

"Pedigreed Seed Covers the Earth".

Pedigreed Seed Co.

Lawnseed Specialists for Over 35 Years!

Write or phone collect for prices on your Special Formulas, Private Brands or Straight Seeds!

Pedigreed Seed Co.

96 Forrest Street, Jersey City 5, N. J.
HEnderson 5-2100

LINING-OUT STOCK

AZALEAS — hardy American and Asiatic.
TAXUS — the better varieties.

BROOKFIELD GARDENS
Rt. 46 DELAWARE, N. J.

WE'LL BE GREETING YOU AT THESE NURSERY CONVENTIONS!

WESTERN January 7 to 9, Hotel Bellerive, Kansas City, Mo.

Howard Doman *Harold Crawford*
A. H. (Hank) North *John Pinney*
J. R. (Jim) Coulter

Be sure to visit our exhibit at this convention.

INDIANA January 5 to 7, Memorial Union, Purdue University, Lafayette, Ind.

R. J. (Bob) Sordet

IOWA January 8 to 10, Hotel Kirkwood, Des Moines, Ia.

J. R. (Jim) Coulter

ILLINOIS January 12 to 14, Hotel La Salle, Chicago, Ill.

Harold Crawford *R. J. (Bob) Sordet*
J. R. (Jim) Coulter

See us at these conventions for your needs.
We grow a complete line of nursery stock for the wholesale trade.

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

Ottawa, Kan.

GUARANTEED-TO-LIVE TRANSPLANTED EVERGREENS

	Per 1000
Austrian Pine, 3-yr. transplants (2-1), 3 to 6 ins.	$ 65.00
Scotch Pine (North German), 4-yr. transplants (2-2), 12 to 18 ins.	75.00
Scotch Pine (Austrian), 3-yr. transplants (2-1), 3 to 6 ins.	70.00
Scotch Pine (French), 3-yr. transplants (2-1), 3 to 6 ins.	70.00
Black Hill Spruce, 5-yr. transplants (2-3), 5 to 10 ins.	85.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 6 to 12 ins.	150.00
Norway Spruce, 4-yr. transplants (2-2), 4 to 8 ins.	70.00
Taxus capitata, 4-yr. transplants (2-2), 5 to 10 ins.	225.00

SEEDLINGS (Not Guaranteed)

All 3 and 4-yr. seedlings are root pruned.

Douglas Fir, 4-yr. seedlings (4-0), 6 to 12 ins.	40.00
Douglas Fir, 3-yr. seedlings (3-0), 3 to 6 ins.	35.00
Mugho Pine, 4-yr. seedlings (4-0), 5 to 10 ins.	35.00
Black Hill Spruce, 4-yr. seedlings (4-0), 4 to 8 ins.	35.00
Colorado Blue Spruce, 3-yr. seedlings (3-0), 5 to 10 ins.	40.00
Engelmann Blue Spruce, 3-yr. seedlings (3-0), 3 to 6 ins.	30.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 6 ins.	30.00
White Spruce, 3-yr. seedlings (3-0), 5 to 10 ins.	30.00
Japanese Black Pine, 2-yr. seedlings (2-0), 3 to 6 ins.	30.00

TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

OUR GUARANTEE

90 per cent of all transplants sold at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1959. (Seedlings not guaranteed.)

If they are grown in Maine, they will grow anywhere. Several other varieties of transplants available. Send for complete list of stock.

WESTERN MAINE FOREST NURSERY CO.

Dept. AN-119 Fryeburg, Maine

J & P EVERGREENS SHADE TREES SHRUBS, VINES HEDGE PLANTS, etc.

In good assortment. **Jackson & Perkins Co.** NEWARK, NEW YORK STATE

NOT TOO EARLY To Order ROSEBUSHES

For winter or spring delivery. Order while our selection is complete.

Send for list.

SOMERSET ROSE NURSERY, INC.
P. O. Box 608
New Brunswick, N. J.

HYBRID RHODODENDRONS

Evergreens
Ornamental Trees and Shrubs

SEPERS NURSERY
N. Delsea Drive
VINELAND, N. J.

BROWN BROTHERS CO.
East Rochester, N. Y.

Roses—Ohio-Grown
Fruit Trees—Dansville-Grown
Including Dwarf Apple
Ornamental Trees
Shrubs — Vines, etc.

Trade List upon Request

TAXUS CAPITATA LINERS

From Seed

5 years old, strong plants, XX, 2 years in field rows, 12 to 15 ins. $500.00 for 1000. Also: 24 to 30 ins. and 30 to 36 ins. Quality finished stock.

HILLSIDE NURSERY
631 Main St.
Cromwell, Conn.

QUALITY LINERS
In Wide Assortment
NURSERY SALES, INC.
525 Stevens Ave., P. O. Box 295
RIDGEWOOD, N. J.
GI. 4-6848

EVERGREEN SEEDLINGS
Growers of Quality Evergreen Seedlings and Transplants
Free price list and planting guide.
Visitors Welcome
FLICKINGERS' NURSERY
Box 13 Sagamore, Pa.

a discussion of the fertilizer elements needed by nursery plants, which of these the nurserymen should consider and the fertilizer elements which can be disregarded. There will be talks concerning light soil mix and what can be added to it to provide a reservoir of nutrition. Also discussed will be the amounts of fertilizer that can safely be used, methods of application and the extent to which slowly available fertilizers can be used to give a safety factor when plants are sold to retail customers.

A summary of nursery experience and suggestions for fertilization will conclude the morning program. This discussion will cover field growing, or the establishment of plants in cans; retail sales, and maintenance by the customer. Thus, there will be suggestions for the grower, the retailer and the landscape contractor, as well as ideas for the retail salesman to give to the homeowner to insure better plant growth after planting.

A large number of canned nursery plants are currently being treated at U. C. L. A. with various materials to demonstrate the effects of long-lasting fertilizers.

This 1-day educational meeting is for all nurserymen and landscape men, whether they are members of professional organizations or not.

NORTHERN INSTITUTE

Northern California nurserymen will be offered a program combining both nutrition and disease control at an all-day institute session Thursday, February 5, at the University of California at Davis. This decision was reached at a program-planning meeting of nurserymen and farm advisers held at the university. All nurserymen are cordially invited. The meeting is being arranged cooperatively by the California Association of Nurserymen and the University of California.

Herman Sandkuhle, Jr., Sunset Nursery Co., Danville and Oakland, was appointed chairman of the nurserymen's planning committee by Willis Stribling, Stribling's Nurseries, Merced. Other members are Don Dillon, Four Winds Growers, Mission San Jose; Gene Armstrong, Capital Nursery, Sacramento; George Oki, Oki Nursery, Sacramento, and Herb Fowler, Fowler Nurseries, Newcastle.

Farm advisers representing the university who attended the planning meeting were Robert Lateer, Alameda county; Peter Lert, Santa Clara county; Jack Fiske, Napa county; Milton Bell, Contra Costa county; Gordon Morehead, Sacramento county; Lee C. Benson, assis-

FOREST NURSERY CO.

SPECIALS

SPRING, 1959

All Stock Listed Nursery Grown

HARDY DECIDUOUS FLOWERING SHRUBS

	Per 10	Per 100	Per 1000
ALMOND (Prunus glandulosa)			
Double Pink-Flowering Almond (own root)			
12 to 18 ins., L.O.			
1 and 2-br.	$2.00	$15.00	$125.00
12 to 18 ins., T., well-br.	4.00	25.00	225.00
18 to 24 ins., T., well-br.	4.50	30.00	250.00
2 to 3 ft., T., well-br.	5.50	35.00	.....
3 to 4 ft., T., well-br.	6.00	45.00	.....
ALTHAEA, HIBISCUS SYRIACUS (Shrub Althaea)			
Varieties:			
Althaea amplissimus, double, red			
Althaea Ardens, double, violet			
***Althaea Jeanne d'Arc,** double, white			
***Althaea totus albus,** single, white			
Althaea Lady Stanley, semidouble, white, shade rose			
Althaea Pulcherrimus, semidouble, white, carmine center			
Althaea Rubis, single, red			
6 to 12 ins., C.	.50	4.00	35.00
12 to 18 ins., C.	.60	5.00	45.00
12 to 18 ins., 2-yr., well-br.	1.50	12.50	100.00
18 to 24 ins., 2-yr., well-br.	1.75	15.00	125.00
2 to 3 ft., 2-yr., well-br.	2.00	17.50	150.00
3 to 4 ft., 2-yr., well-br.	2.50	22.00	.....
*Up to 2 to 3 ft. only.			
LIGUSTRUM AMURENSE (Amur River North Privet)			
LIGUSTRUM PRIVET (Ibolium Privet)			
LIGUSTRUM OVALIFOLIUM (California Privet)			
Grafting grade, 3/16 to ¼-in. cal.	.40	3.50	30.00
Grafting grade, ¼-in. cal. and up	.50	4.00	35.00
Field-grn., L.O., 1 cane	.40	2.50	20.00
6 to 12 ins., 2-br.	.50	3.00	25.00
12 to 18 ins., 2-br.	.60	3.50	30.00
18 to 24 ins., 2-br.	.70	4.50	40.00
12 to 18 ins., 3-br. up	.70	4.50	40.00
18 to 24 ins., 3-br. up	.80	5.50	50.00
2 to 3 ft., 4-br. and up	1.00	8.00	75.00
SPIRAEA ANTHONY WATERER			
6 to 12 ins., C.	1.50	10.00	....
6 to 12 ins., 3-yr., T., well-br.	2.00	15.00	....
12 to 15 ins., 3-yr., T., well-br.	3.00	25.00	....
15 to 18 ins., 3-yr., T., well-br.	3.50	30.00	....
18 to 24 ins., 3-yr., T., well-br.	4.00	35.00	....
SYRINGA PERSICA (Persian Lilac), purple			
6 to 12 ins., C.	1.00	8.00	70.00
12 to 18 ins., C.	1.25	10.00	90.00
18 to 24 ins., C.	1.50	12.00	100.00
12 to 18 ins., well-br.	2.00	17.00	150.00
18 to 24 ins., well-br.	3.00	25.00	200.00
2 to 3 ft., well-br.	4.00	35.00	300.00
VIBURNUM TOMENTOSUM (Double-File Viburnum)			
6 to 12 ins., C.	2.00	15.00	100.00
12 to 18 ins., C.	2.50	20.00	125.00
12 to 18 ins., well-br.	3.50	25.00	200.00
18 to 24 ins., well-br.	4.50	35.00	300.00
2 to 3 ft., well-br.	5.00	40.00	.....
WEIGELA NANA VARIEGATA (Variegated Weigela) Pink-flowering, variegated foliage.			
6 to 12 ins., C.	.75	5.00	40.00
12 to 18 ins., C.	.85	6.00	50.00
12 to 18 ins., well-br.	2.50	20.00	150.00
18 to 24 ins., well-br.	3.00	25.00	200.00
2 to 3 ft., well-br.	3.50	30.00	250.00

ORNAMENTAL and SHADE TREES

	Per 10	Per 100	Per 1000
ACER DASYCARPUM (Saccharinum) (Silver Maple)			
6 to 12 ins., S.	$0.30	$ 1.50	$ 10.00
12 to 18 ins., S.	.40	2.00	15.00
18 to 24 ins., S.	.50	2.50	20.00
2 to 3 ft., S.	.60	3.00	25.00
3 to 4 ft., S.	.70	3.50	30.00
4 to 5 ft., S.	.80	4.50	40.00
4 to 5 ft., T., well-br., tops	5.00	40.00	350.00
5 to 6 ft., T., well-br., tops, ½ to ¾-in. cal.	7.50	60.00	550.00
6 to 8 ft., T., well-br., tops, ¾ to 1-in. cal.	10.00	80.00	700.00
8 to 10 ft., T., well-br., tops, 1¼ to 1½-in. cal.	15.00	125.00	.....
10 to 12 ft., T., well-br., tops, 1½ to 1¾-in. cal.	20.00	175.00	.....
2 to 2½-in.	27.50	250.00	.....
ALBIZZIA JULIBRISSIN (Mimosa Tree)			
6 to 12 ins., S.	.50	3.00	25.00
12 to 18 ins., S.	.60	4.00	35.00
18 to 24 ins., S.	.75	5.00	45.00
2 to 3 ft., S.	.90	6.50	60.00
3 to 4 ft., 3-yr., S.	2.50	20.00	150.00
4 to 5 ft., 3-yr., S.	3.50	30.00	200.00
3 to 4 ft., T.	4.00	35.00	.....
4 to 5 ft., T.	5.00	45.00	.....
5 to 6 ft., T.	6.00	55.00	.....
6 to 8 ft., T.	8.50	75.00	.....
8 to 10 ft., T.	12.50	100.00	.....
FRAXINUS AMERICANA (White Ash)			
FRAXINUS LANCEOLATA (Green Ash)			
6 to 12 ins., S.	.25	1.25	10.00
12 to 18 ins., S.	.30	1.75	15.00
18 to 24 ins., S.	.45	2.25	20.00
2 to 3 ft., S.	.50	2.75	25.00
3 to 4 ft., T., br.	4.50	40.00	.....
4 to 5 ft., T., br.	5.50	50.00	.....
5 to 6 ft., T., br.	6.50	60.00	.....
6 to 8 ft., T., br.	7.50	70.00	.....
KOELREUTERIA PANICULATA (Golden-Rain Tree)			
6 to 12 ins., S.	3.00	25.00	200.00
12 to 18 ins., S.	4.00	30.00	250.00
18 to 24 ins., S.	6.00	50.00	350.00
2 to 3 ft., S.	7.50	60.00	.....

DUG WHILE IN TIGHT BUD AND STORED IN MODERN REFRIGERATED WAREHOUSE UNTIL YOU WISH PLANTS SHIPPED

	Per 10	Per 100
MAGNOLIA LILIFLORA NIGRA (Purple Lily Magnolia)		
18 to 24 ins., B&B	$17.50	$150.00
2 to 3 ft., B&B	22.50	200.00
MAGNOLIA SOULANGEANA (Saucer Magnolia)		
18 to 24 ins., B&B	17.50	150.00
2 to 3 ft., B&B	22.50	200.00
3 to 4 ft., B&B	27.50	250.00
4 to 5 ft., B&B	32.50	300.00
5 to 6 ft., B&B	37.50	350.00

	Per 10	Per 100	Per 1000
PLATANUS OCCIDENTALIS (Sycamore) (American Plane Tree)			
6 to 12 ins., S.	$0.25	$ 1.50	$ 10.00
12 to 18 ins., S.	.35	2.00	15.00
18 to 24 ins., S.	.45	3.00	25.00
2 to 3 ft., S.	.50	5.00	35.00
3 to 4 ft., S. 3-yr.	.75	6.00	50.00
4 to 5 ft., S., 3-yr.	1.00	7.00	....
4 to 5 ft., T., well-br.	6.00	50.00	....
5 to 6 ft., T., well-br.	7.50	60.00	....
6 to 8 ft., T., well-br.	10.00	75.00	....
8 to 10 ft., T., well-br.	12.50	100.00	....
1½ to 2-in. cal.	17.50	150.00	....
POPULUS NIGRA ITALICA (Lombardy Poplar)			
6 to 12 ins., C.	.50	3.00	20.00
12 to 18 ins., C.	.60	3.50	25.00
18 to 24 ins., C.	.70	4.00	30.00
2 to 3 ft., C.	.80	5.00	40.00
3 to 4 ft., C.	.90	6.00	50.00
4 to 5 ft., C.	1.00	7.00	60.00
4 to 5 ft., br.	2.50	20.00	150.00
5 to 6 ft., br.	3.00	25.00	200.00
6 to 8 ft., br.	4.00	35.00	.....
8 to 10 ft., br.	5.50	50.00	.....
PRUNUS PERSICA (Flowering Peach)			
***Double White**			
Double Red			
Double Pink			
Peppermint Stick			
Redleaf (Combination fruiting and flowering peach)			
12 to 18 ins., br., June bud	2.00	15.00	.....
18 to 24 ins., br., June bud	2.50	20.00	.....
24 to 30 ins., br., June bud	2.75	22.50	.....
5/16 to 7/16-in. cal., dormant bud	3.50	30.00	.....
7/16 to 9/16-in. cal., dormant bud	4.00	35.00	.....
9/16 to 11/16-in. cal., dormant bud	5.00	45.00	.....
11/16-in. cal., dormant bud	7.00	65.00	.....
1 to 1¼-in. cal., dormant bud (Redleaf only)	10.00	125.00	.....
*White-Flowering Peach in June buds only.			
TILIA AMERICANA (American Linden)			
3 to 4 ft., T., br.	6.00	55.00	.....
4 to 5 ft., T., br.	7.50	70.00	.....
5 to 6 ft., T., br.	10.00	....	.....
6 to 8 ft., T., br.	12.50	....	.....
8 to 10 ft., T., br., 1½-in. cal.	20.00	....	.....
ULMUS PUMILA (Chinese Elm)			
6 to 12 ins., S.	.30	1.50	10.00
12 to 18 ins., S.	.40	2.00	15.00
18 to 24 ins., S.	.50	2.50	20.00
2 to 3 ft., S.	.60	3.00	25.00
3 to 4 ft., S.	.70	4.50	35.00
4 to 5 ft., S., br.	1.25	10.00	75.00
5 to 6 ft., S., br.	1.50	12.50	....

Also

A large assortment of other **Hardy Deciduous Flowering Shrubs, Ornamental and Shade Trees** plus:

Vines and Creepers
Nut Trees
Fruit Trees
Evergreens (Coniferous and Broad-Leaved)

Send for a copy of our current Wholesale Price List.

Special quotations on large quantities.

Illinois Convention Representatives: *John T. Boyd*
Hotel La Salle *Lowell Barnes*
Hiram Stubblefield

FOREST NURSERY CO., INC. McMinnville, Tenn.

PRINCETON NURSERIES

1300 acres devoted to the production of the finest in ornamental plants.

Featuring shade and flowering trees in wide assortment.

Flowering shrubs, hedge plants, ground covers, evergreens, azaleas, vines, etc.

VISIT OUR NURSERY

SEND YOUR WANT LIST

WHOLESALE ONLY

PRINCETON NURSERIES
Princeton, N. J.
Phone: WA 4-1776

SUGAR MAPLE
for
Streets—Parks—Forests
Long Life—Strength—Coloring
Collected. Nursery-Grown.
Any quantity available.
1/2 to 12-in. cal.
Beech, Ash, Red Maple, Red Oak, Birch and Shadblow also available.

R. H. ROGERS NURSERY
COOPERSTOWN, N. Y.

B&B EVERGREENS
Hemlock
Pfitzer Juniper
Globe Arborvitae
Nursery located north end of Broad Brook on Connecticut Highway No. 140.
Ask for Wholesale Price List
E. NORMAND MYERS
Nurseryman
Broad Brook, Conn.

tant state director for the coast county area of California, and Marston H. Kimball. In addition, Prof. R. W. Harris, department of landscape management, University of California at Davis, attended.

The northern California program will feature two topics—nutrition, which will be discussed during the morning, and disease control, the subject scheduled for the afternoon. Nutrition discussions will be centered around the use of light sands, with various materials such as peat moss and rice hulls added, and the maintenance and growing of plants in this type of mix and their conditioning for retail sale. The program will include a summary of an all-round nutrition program for field growing or from the first planting in nursery cans to the retail customer. Speakers will include growers using the light soil mix and university personnel working with the problem.

The afternoon session on disease control will feature discussions of the fundamentals of plant infection, the importance of nematodes, methods of both chemical and steam sterilization and problems of common diseases and their control.

It is expected that there will be demonstrations of the effects of various programs of nutrition, the use of long-lasting fertilizers and of the commoner diseases of nursery plants.

The committee requested discussion of the educational facilities and opportunities for high-level training available at the university that could lead to employment in the nursery industry or related areas.

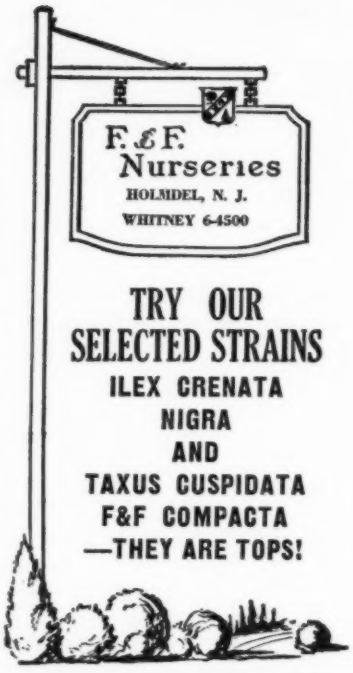
Chairman Sandkuhle is making plans to visit C. A. N. chapters in the central part of the state to discuss the nursery program and arrange publicity.

COLORADO COURSE DATE

February 9 and 10 are the dates announced for the short course for Colorado nurserymen and arborists offered by Colorado State University, Fort Collins. The meeting place will be the Student Union building on the campus, according to Cliff Morgan, Williams Gardens, Greeley, president, Colorado Nurserymen's and Arborists' Association.

DATES SET IN IDAHO

The Idaho Association of Nurserymen will hold its annual meeting and garden school February 9 and 10, according to an announcement by Robert V. Gates, I. A. N. secretary. The Basque Center, 601 Grove street, Boise, Ida., will be the site of the event.



MULTIFLORA ROSE
(Rosa multiflora japonica)
Hardy, northern-grown plants. Our highest quality is well known.
2 to 3 mm. in caliper, 8 to 12 ins. in height, $12.50 per 1000.
3 to 8 mm. in caliper, 12 to 24 ins. in height, $22.50 per 1000.
Less than 1000 add 30%.
Packing at cost.
BROOKVILLE NURSERIES
Box 53, Northern Blvd.
Glen Head, N. Y.

ROSES
Central Pennsylvania Grown
2-yr.-old, field-grown plants.
Hybrid Teas—Floribundas—Climbers
EVERGREENS
Landscape Material
Twice transplanted, regularly sheared.
Young salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.
Write for wholesale price list.
SHADE'S NURSERY
624 Colonial Club Dr.
Harrisburg, Pa.
Phone: Harrisburg, KI 5-5417
5 miles east of Harrisburg on U. S. Rt. 22, turn north at Inn 22, nursery 1 mile north of U. S. Rt. 22.

SHADE TREES—ORNAMENTALS
Gleditsia triacanthos, Carpinus caroliniana, Cercis canadensis, Cornus florida, Phellodendron amurense, Platanus acerifolia, Liquidambar styraciflua, Acer platanoides, Acer rubrum, Fraxinus americana, Acer ginnala, Ostrya virginiana, Koelreuteria paniculata, Pyrus calleryana, Pinus strobus, Pinus nigra, Salix babylonica, Pieris japonica and many more.
HIDDEN VALLEY NURSERY
Phone: MIllington 7-1158 Gillette, N. J.

SCHROTH'S NURSERY

It pays to plant The Best **SEEDLINGS** **Excellent Root Systems, Hardy ORDER NOW!**

Grown at High Altitude—In the Heart of the Original Pine Forests

We grow and sell hundreds of thousands of evergreen seedlings each year. We have always been sold out before the first of April. We suggest that you order early for our seedlings.

PINE SEEDLINGS

	Per 100	Per 1000
Scotch Pine, French Auvergne		
(2-0), 2 to 4 ins.	$2.00	$10.00
(2-0), 4 to 7 ins.	3.50	25.00
(3-0), 8 to 12 ins.	5.00	30.00
Scotch Pine, French Haganau		
(3-0), 12 to 16 ins.	6.00	30.00
Scotch Pine, Spanish		
(2-0), 2 to 4 ins.	2.50	15.00
(2-0), 4 to 8 ins.	4.50	30.00
Scotch Pine, Riga		
(2-0), 2 to 4 ins.	2.00	10.00
(2-0), 4 to 8 ins.	3.50	25.00
(3-0), 8 to 14 ins.	5.00	30.00
Scotch Pine, Austria		
(2-0), 3 to 5 ins.	2.50	15.00
(2-0), 5 to 8 ins.	4.00	25.00
Scotch Pine, Belgium		
(2-0), 2 to 4 ins.	2.00	10.00
(2-0), 4 to 8 ins.	3.50	25.00
(3-0), 8 to 14 ins.	5.00	30.00
Austrian Pine		
(2-0), 4 to 7 ins.	4.50	25.00
(3-0), 8 to 14 ins.	5.00	30.00
White Pine		
(3-0), 4 to 6 ins.	4.00	20.00
(3-0), 6 to 9 ins.	5.00	30.00
Mugho Pine, Tyrolean		
(2-0), 2 to 3 ins.	3.00	20.00
Ponderosa Pine		
(2-0), 2 to 4 ins.	2.00	10.00
(2-0), 4 to 7 ins.	3.50	20.00

SPRUCE SEEDLINGS

	Per 100	Per 1000
Norway Spruce		
(2-0), 4 to 6 ins.	$ 3.00	$20.00
(3-0), 6 to 12 ins.	5.00	30.00
(4-0), 12 to 14 ins.	8.00	60.00
White Spruce, Densata Black Hill		
(3-0), 3 to 5 ins.	3.00	20.00
(3-0), 5 to 9 ins.	4.50	30.00
White Spruce, Alberta		
(3-0), 3 to 5 ins.	3.00	20.00
(3-0), 5 to 9 ins.	4.50	30.00
White Spruce		
(4-0), 8 to 10 ins.	6.00	40.00
(4-0), 10 to 14 ins.	8.00	50.00
Colorado Blue Spruce		
(3-0), 3 to 5 ins.	3.50	20.00
(3-0), 5 to 9 ins.	5.00	35.00
(4-0), 6 to 12 ins.	10.00	60.00

NO ENGELMANN SPRUCE THIS SEASON

FIR SEEDLINGS

Douglas Fir, glauca		
(2-0), 3 to 5 ins.	3.50	20.00
(2-0), 5 to 8 ins.	7.00	35.00
(3-0), 8 to 12 ins.	10.00	45.00
(4-0), 12 to 15 ins.	12.00	60.00

NO CONCOLOR THIS SEASON

NO HEMLOCK THIS SEASON

NO TRANSPLANTS OF ANY SPECIES AVAILABLE THIS SEASON

NO RED PINE THIS SEASON

Why not make a planting of Scotch Pine this season?—it will pay you large dividends. All stock offered subject to prior sale.

LARCH SEEDLINGS

Larch, European		
(3-0), 6 to 12 ins.	3.00	20.00
(3-0), 12 to 15 ins.	5.00	30.00

We guarantee all stock represented herein for size and quality, or your money will be cheerfully refunded. At prices quoted we cannot guarantee survival of seedlings.

ORNAMENTALS: We do not have any ornamentals of any kind or species, balled or bare root.

OUR SEEDLINGS are grown under natural conditions. It has not been necessary for us to force our growing through irrigation or watering of any kind. We endeavor to make our seedlings hardy and able to withstand drought. We do not raise them on beefsteak and expect our customers to grow them later on water and crackers.

5% discount on 20,000 to 34,000. 10% discount on 35,000 and over of combined species.

TERMS OF SALE: All prices are F.O.B. Indiana, Pa. Stock is shipped C.O.D. parcel post or by express. State preference when ordering All orders must be accompanied by full payment or by 25% deposit with balance before shipment or C.O.D. or satisfactory credit reference.

SCHROTH'S NURSERY

INDIANA, PA.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

LATE FROST

Maryland is continually having weather that is different. This past season might well be remembered as the autumn without a frost, and the weather that was different was pleasant. Normally, the first frost occurs between October 20 and 25. This year there was a cool night about that time with the temperature dropping to 40 degrees Fahrenheit, which may have been enough to give a light frost, but was not enough to kill tomatoes and other cold-sensitive plants. After that one night, there was mild weather until a killing frost occurred a month later.

The behavior of plants in a mild fall is peculiar, and I was interested to see how they would behave under such conditions. Of course, there are deciduous plants in the tropics where dormancy is not induced by cold but usually by droughts, or by variations in light intensity or by both. As would be expected, there were all gradations of reactions to the lack of frost. Some plants went dormant almost on schedule, while others held their leaves almost completely, changing little in color. The plants with persistent foliage (semievergreen) stayed luxuriously green.

Fall color varied considerably. Plants such as the gums and tulip poplars turned brilliant at the usual times and had as good a color as ever. The oaks, pin and red, were slower in turning, but when they did turn, they were quite colorful. The same was true of the dogwood. The maples were much slower in turning. A large red maple on my lawn was slow changing and then was yellow, not red. I noticed a Norway maple in a yard almost fully clothed in green leaves November 20.

Flowering Shrubs Varied

Flowering shrubs varied a great deal too. A forsythia had nearly all green leaves late in November, while the crape myrtle turned at the usual time. Spiraea vanhouttei kept its green leaves quite late too. The semievergreen plants, such as California privet and Japanese honeysuckle, remained a luxurious green.

Variations occurred in flowering quality as well. There was little of the secondary blooming so often seen in the fall on pear, apple, lilac and other spring plants. There was no cold to break the dormancy, nor was there a preceding dry season to cause a false dormancy. The plants that showed up well in flowering were the ones that are normally southern plants that have been pushed to their climatic limit. The fall-blooming Camellia sasanqua was the most beautiful I have ever seen it, staying in bloom for four to five weeks. That useful shrub, Abelia grandiflora, bloomed well as late as in the middle part of November. Plants such as osmanthus and elaeagnus had their usual profusion, but they are not often inhibited by cold weather unless it is quite cold.

Berries, Fruits Not Affected

Berries and fruits do not seem to have been affected by the tardiness of the frost. Viburnums, pyracanthas, nandinas and most hollies colored up on schedule and were as attractive as ever. The American holly seemed to be a little slower, although it is usually later than the others. The deciduous holly was fine this year. Since the supply would hardly be affected by the fall weather, there would be no relation to the rather heavy cropping of most plants this year.

Even herbaceous plants took advantage of the mild weather. My wife had a pretty vase of petunias in the house at Thanksgiving. It was a fine fall for sowing grass; late sowings germinated well and gave a good stand. Roses, of course, always bear late, and this year they were more profuse than usual. Bulbs such as cannas were slow losing their foliage and, of course, were slow curing.

EDUCATIONAL PROGRAM

[Continued from page 8]

ways, retaining walls two or three feet high, garden benches and different levels in the garden. There is a trend away from built-in barbecues to portable ones that can be moved to avoid wind.

Consumer Motivation

Heard with much interest was the talk delivered Monday afternoon, December 1, by Prof. R. L. Smith,

WE GROW 5 MILLION SEEDLINGS A YEAR

Price list for spring, 1959.

	SEEDLINGS Per 100	Per 1000	1000 Per 10,000	1000 Per 100,000
Scotch Pine (Race Noble)				
(2-0), 2 to 4 ins.	$3.00	$11.00	$11.00	$10.00
(2-0), 3 to 6 ins.	3.50	18.00	15.00	12.50
(2-0), 4 to 8 ins.	4.00	22.00	20.00	15.00
(3-0), 7 to 14 ins.	4.50	27.50	25.00	22.50
(3-1), 5 to 10 ins.	5.00	35.00	35.00	....
Scotch Pine (East Anglia or West German)				
(2-0), 2 to 4 ins.	3.50	12.00	12.00	10.00
(2-0), 3 to 6 ins.	4.00	20.00	18.00	16.00
(2-0), 4 to 8 ins.	4.50	24.00	22.00	20.00
(3-0), 6 to 24 ins.	5.00	30.00	27.50	25.00
(3-1), 5 to 10 ins.	5.50	35.00	35.00	....

Austrian, Norway, Colorado Blue, Engelmann, Black Hills Spruce and Douglas Fir seedlings and transplants.

EVERGREEN FARM NURSERY

Henry Beimfohr

R. R. 2, Fennville, Mich. Phone: Fennville 3834

Nursery located ½ mile west on 126 Ave. and U. S. 31 or 1 mile north of M 89 and U. S. 31 and ½ mile west on 126 Ave.

Peach
Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr. and 2-yr.

Thorne Brewster

WILLOWBEND NURSERY

PERRY, O.

NORTHERN-GROWN STOCK

Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs

Philadelphus Minnesota Snowflake (Plant Patent No. 538).

Send for list.

J. V. BAILEY NURSERIES

ST. PAUL 6, MINN.

SHERMAN'S LANDSCAPE SHRUBS

	Per 10	Per 100
Almond, Pink, 18 to 24 ins.	$ 4.50	$40.00
Almond, Pink, 2 to 3 ft.	5.50	50.00
Alpine Currant (Ribes alpinum)		
12 to 15 ins.	5.00	45.00
15 to 18 ins.	6.50	60.00
18 to 24 ins.	7.50	70.00
24 to 30 ins.	10.00	90.00
Barberry, Red, 15 to 18 ins.	5.00	45.00
Barberry, Red, 18 to 24 ins.	6.00	55.00
Barberry, Green, 15 to 18 ins.	3.50	30.00
Barberry, Green, 18 to 24 ins.	4.50	40.00
Blue Mist, No. 1	3.50	30.00
Cornus amomum, 3 to 4 ft.	6.50	60.00
Cornus elegantissima, 3 to 4 ft.	10.00	90.00
Cornus lutea, 3 to 4 ft.	6.50	60.00
Cornus lutea, 4 to 5 ft.	8.00	75.00
Cornus paniculata, 2 to 3 ft.	5.50	50.00
Cornus sibirica, 3 to 4 ft.	6.50	60.00
Cornus stolonifera, 3 to 4 ft.	5.50	50.00
Cornus stolonifera, 4 to 5 ft.	6.50	60.00
Cydonia japonica, 12 to 18 ins.	3.00	25.00
Cydonia japonica, 18 to 24 ins.	4.00	37.50
Elder, Golden, 3 to 4 ft.	6.50	60.00
Elder, Golden, 4 to 5 ft.	7.50	70.00
Forsythia intermedia, 2 to 3 ft.	4.50	40.00
Forsythia Lynwood Gold, 3 to 4 ft.	7.50	70.00
Forsythia spectabilis, 3 to 4 ft.	6.50	60.00
Forsythia Spring Glory, 3 to 4 ft.	6.50	60.00
Honeysuckle, Clavey's Dwarf, 15 to 18 ins.	4.00	35.00
Honeysuckle, Clavey's Dwarf, 18 to 24 ins.	4.50	40.00
Honeysuckle, morrowi, 3 to 4 ft.	5.50	50.00
Honeysuckle, Red Tatarica, 3 to 4 ft.	5.50	50.00
Honeysuckle, zabeli, 2 to 3 ft.	4.50	40.00
Honeysuckle, zabeli, 3 to 4 ft.	5.50	50.00
Hydrangea, A. G., 18 to 24 ins.	5.50	50.00
Hydrangea, P. G., 18 to 24 ins.	$ 5.00	$ 45.00
Hydrangea, P. G., 2 to 3 ft.	6.00	55.00
Hypericum aureum, 18 to 24 ins.	5.50	50.00
Hypericum aureum, 15 to 18 ins.	4.50	40.00
Lilac, Purple, 18 to 24 ins.	4.50	40.00
Lilac, Purple, 2 to 3 ft.	5.50	50.00
Lilac, White, 2 to 3 ft.	5.50	50.00
Lilac, French (Named), 2 to 3 ft.	8.50	80.00
Lilac, French (Named), 3 to 4 ft.	11.00	100.00
Philadelphus aureus, 12 to 15 ins.	7.00	65.00
Philadelphus aureus, 15 to 18 ins.	8.50	80.00
Philadelphus coronarius, 2 to 3 ft.	5.50	50.00
Philadelphus grandiflorus, 3 to 4 ft.	6.50	60.00
Philadelphus lemoinei, 2 to 3 ft.	5.50	50.00
Philadelphus virginalis, 2 to 3 ft.	5.50	50.00
Ninebark, Golden, 3 to 4 ft.	6.50	60.00
Ninebark, Golden, 4 to 5 ft.	7.50	70.00
Ninebark, Dwarf (nanus), 2 to 3 ft.	4.50	40.00
Potentilla fruticosa, 15 to 18 ins.	4.50	40.00
Potentilla fruticosa, 18 to 24 ins.	5.50	50.00
Privet, Amur River North, 2 to 3 ft.	2.00	17.50
Privet, Amur River North, 3 to 4 ft.	2.25	20.00
Privet, California, 2 to 3 ft.	1.75	15.00
Privet, Lodense, 12 to 15 ins.	3.00	25.00
Redbud, 3 to 4 ft.	8.50	80.00
Russian Olive, 3 to 4 ft.	6.50	60.00
Spiraea Anthony Waterer, 15 to 18 ins.	5.00	45.00
Spiraea Anthony Waterer, 18 to 24 ins.	6.00	55.00
Spiraea froebelli, 18 to 24 ins.	4.00	35.00
Spiraea thunbergi, 2 to 3 ft.	5.00	45.00
Spiraea vanhouttei, 2 to 3 ft.	4.00	35.00
Snowball (Common), 18 to 24 ins.	5.00	45.00
Snowball (Common), 2 to 3 ft.	6.00	55.00
Willow, Blue Arctic, 2 to 3 ft.	4.50	40.00
Willow, French Pussy, 2 to 3 ft.	3.50	30.00

We also grow a good line of shade trees, fruit trees, vines, evergreens and lining-out stock. Write for our new December wholesale trade list.

SHERMAN NURSERY CO.

Phone: CApital 8-1124 **Charles City, Iowa**

chairman, marketing department, Syracuse University, Syracuse, N. Y. The subject, "Consumer Motivation —Key to Increased Profits," provided much practical information. Having been an instructor at the recent management conference of the American Association of Nurserymen held at Lake Sagamore, in New York, Professor Smith said he was greatly impressed by the thirst for knowledge and desire to improve their businesses and industry shown by the attending nurserymen.

Increased profit is the motivating force behind any business, he stated. A new era in industrial management has appeared since the last war. The industrial concern is part of the community. Since the war, industrial buildings have become show places in their communities. Urging the nurserymen to become interested in industrial landscaping, Professor Smith said industrial leaders can be contacted in an off-season, when the planning for such jobs can also be done. Industrialists talk big money, and while a landscaping job might appear to be a big investment to a nurseryman, it is not for a large company. Such landscaping jobs will pay dividends daily to the industrial firm, and the plantings will increase in value. The nurseryman can sell

SPRING, 1959

A few items in quantity.

Biota aurea nana
Juniper, canaerti
Juniper, depressa plumosa (Andorra)
Juniper, glauca
Juniper, keteleeri
Juniper, Pfitzer, extra good
Juniper, stricta
Taxus cuspidata
Euonymus alatus
Euonymus alatus compactus
Euonymus erectus
Euonymus patens
Euonymus vegetus
Ash, European Mountain
Cornus florida
Cornus rubra
Elm, Chinese
Crab Apple, Flowering
Locust, Honey
Magnolia
Maple, Crimson King
Maple, Norway
Maple, Columnar
Maple, rubrum
Maple, schwedleri
Maple, Silver
Maple, Sugar
Oak, Pin
Prunus Newport
Prunus Thundercloud
Redbud
Sweet Gum, TT, once root-pruned
Tulip Tree
Willow, Thurlow
Almond, Pink
Currant, Alpine
Barberry, Green
Barberry, Red
Barberry, mentorensis
Cotoneaster divaricata
Forsythia
Honeysuckle Bush
Philadelphus aureus
Philadelphus grandiflora
Philadelphus Virginal
Privet, Golden
Privet, Regel's
Privet, Amur North, heavy
Spiraea vanhouttei
Viburnum dentatum

All kinds of fruit trees, 1 and 2-yr.

C. M. HOBBS & SONS, INC.

Bridgeport, Ind.

Phone: Indianapolis, CHapel 4-1812

PROFITS

Profits are the elusive reason that most of us are in business. Lack of profits is the concrete reason that many of our good plantsmen are no longer in business. It is presumed that since this magazine is coming into your hands you are one of the people that give considerable thought to this subject and do all in your power to see that your business is run on a profitable business-like basis. This being the case, I am sure that you will be interested in the thoughts that I would like to put forth for your consideration at this time. American Holly (Ilex opaca) is the most profitable single item that we grow in many respects.

When we plant out a liner of our 20-below-zero Holly, we are sure that in two to three years this liner will be a 12 to 15-in. or 15 to 18-in. plant worth $2.50 or $3.50 at wholesale and considerably more at retail. We are just as sure that in another two or three years this plant will have become a 2½ to 3-ft. nicely sheared specimen worth much more at either wholesale or retail. All of the time we are growing this plant we know that when we do decide to sell it there will be a ready market for it and that the demand for this beautiful plant will not be satisfied for the next full generation.

Holly is the most wonderful plant you could imagine, both for use in the landscape, where it is invaluable, and for swelling the profits, where it is indispensable.

We can put you in the Holly business very easily by supplying you with a couple of nice specimen plants to help you landscape your office, which will in turn help you sell the smaller plants which we can supply you with for as many years as you need them, while your liners are growing into a salable size. (Of course, due to the high costs of labor and transportation we can't crate B&B stock. The order must be large enough to make truck delivery practical. We can ship any amount of liners from 50 and up.)

All you need to get into the Holly business in a big way is some ground to plant them on and a willingness to work along with a little cash to finance yourself. This is the part you supply. We supply you with all of the needed know-how which we have gathered over a period of more than 20 years in this business.

Sure, we will make a profit on the sale to you of these items, but we will at the same time feel rather smug for another reason. Since we know that this venture will be profitable to you, we know that you will be our customer for many years to come and we will count on the profit of selling to you for a long time, and that's what this article is about.

If you have any questions about any of the above, I will be glad to talk with you about it and send you a list. Don't wait; insure your future profits now. Paul R. Bosley, THE BOSLEY NURSERY, Mentor, Ohio.

not only the landscaping job, but obtain the maintenance contract.

Unpredictable Homeowner

Much less predictable in response is the consumer, or homeowner. Professor Smith urged nurserymen to get to know their customers and call them by name. It is important to know what motivates each individual to buy nursery stock. Every decision to purchase is the result of a mental reaction or process, he pointed out. This desire can be emotional or rational. The rational mind considers the points for or against purchase, while the emotional mind disregards these. Usually the motivation is a combination of the two. If the mental reaction or process is emotional, it can stem from a desire to emulate or from a desire for social acceptance or come as a result of advertising. The rational appeal caters to reason and would be approached by stressing the economy of products or other basic features.

Unless a salesperson obtains more dollars from a consumer than the latter originally intended to spend, he is order-taking and not selling. Professor Smith suggested a 5-point program to accomplish effective selling:

First, understand the customer's motivation for desiring the product.

Second, develop a list of appeals; probably a dozen will produce wonders, he said. Naming several of these, Professor Smith mentioned comfort, which can be provided by shade trees and windbreaks; conformity, which can be gained by a well-landscaped home; privacy, obtained by an outdoor living room; pride, gained by impressing others passing the house, and economy, careful management of one's money to receive the best value. Some of the most expensive items may give the best value, pointed out Professor Smith; a nurseryman does not always give the customer a break by selling him the most inexpensive item. Professor Smith advised studying the merchandising and sales bulletins of the American Association of Nurserymen; he thought that they were worth the price of membership in the organization.

Third, Professor Smith advised training an organization to use the appeals after they had been developed. He said to watch when the customer shows an interest in an appeal and then pursue it. Different appeals are effective on different persons, such as on the father, mother and children.

Fourth, he suggested scheduling regular sales meetings. Salesmen can

NEW AND COMING SURE-FIRE ROSES

BINGO

(Plant Pat. No. 1392)
A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.9; is becoming more popular and the demand for spring, 1959, will be great. Order yours now! Suggested retail, $2.50.

PINK FRAGRANCE

(Plant Pat. No. 1493), A.R.S. 1958, 7.6
A many-petaled pink rose with outstanding lustrous foliage. This vigorous bush is one of the best pink roses. Suggested retail, $2.50.

Each 1 to 9	Each 10 to 19	Each 20 to 99	Each 100 to 249
$1.60	$1.40	$1.25	$1.20

Each 250 and up, $1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

The Monroe Nursery Co.
Monroe, Mich.
The Greening Nursery Co.
Monroe, Mich.
Peterson & Dering
Scappoose, Ore.
Shenandoah Nursery
Shenandoah, Ia.
Gerard Klyn Co.
Mentor, O.
Elmer Roses
6708 N. San Gabriel
San Gabriel, Calif.

HUSKY LINERS

By *Husky Liners* we mean strong, sturdy evergreen liners, suitable for a variety of field conditions.

Write for list.

Phone: TA 3-9508

CRUMRINE NURSERY
R. D. No. 2 **Alliance, Ohio**

Northern-Grown Liners
Christmas Tree Seedlings
Potted Evergreens
Send for price list.
JOHN G. ZELENKA EVERGREEN NURSERY
Rt. 2, Grand Haven, Mich.

DUGAN'S CHOICE NURSERY-GROWN PLANTS!
See page 37, September 1 issue of American Nurseryman, for complete fall list or write:
DUGAN NURSERIES, INC.
Center St. **Perry, Ohio**

share experiences on what has motivated certain customers.

Fifth, Professor Smith suggested utilizing the findings of consumer motivation in advertising. Sales volume, gross margin and expenses all affect profits individually, and consumer motivation affects all three of these, especially the first two. Professor Smith concluded his remarks by saying that the growth possibilities for the nursery trade are fantastic, but they are not automatic.

Public Relations

Appearing on the program for a second time, Tuesday morning, December 2, Professor Smith discussed public relations and the nurseryman. He asked, What is public relations? To some, he said, it is free publicity. To others it is putting out the fire of bad publicity. Others believe it to be a device to protect the vested interest of a group, and to some it is a device used in collective bargaining. Public relations, said Professor Smith, is all of these and more. It is a philosophy of management. It is putting the public first. Employees, customers and suppliers are all part of this public.

The requisite of a good public relations program is that the public interests must be served. Employees are interested in their wages and also a pat on the back. Customers want good products, good values and honest dealings. Growers and suppliers are interested in honest dealings and prompt payment. Dealers want good merchandise, assistance in merchandising products and understanding.

The public relations program should include a statement of policy of the company—what the company stands for. This statement should include its policy toward employees and a policy for credit. These policies will provide for uniformity of treatment.

The next part of a public relations program consists of written systems that give procedures for carrying out the policies that are laid down.

Another part of the program is communications. All the employees have to know the systems, and the consumers need to know the policies, including the credit policy. Public relations is the responsibility of all, he continued. An association can do much along this line, but cannot do the entire job.

Profitable Procedures

In a retail outlet the objective is profit and growth. Merchandise should be displayed properly, and an attractive sales building is required; the American people like to do busi-

PLUMFIELD NURSERIES, Inc.

Box 471 **Fremont, Neb.**

FRUIT TREE STOCKS

	Per 100	Per 1000
Malus Columbia		
No. 1	$5.50	$50.00
No. 2	4.50	40.00
Malus Osman		
No. 1	5.50	50.00
No. 2	4.50	40.00
Plum, Native		
¼-in. cal.	4.50	40.00
No. 1	4.00	35.00
No. 2	2.90	25.00
Pear, ussuriensis		
¼-in. cal.	$4.50	$40.00
No. 1	4.10	36.00
No. 2	3.20	28.00
Prunus hortulana		
We are growing this as a nonsuckering variety.		
¼-in. cal.	5.00	45.00
No. 1	4.50	40.00
No. 2	3.50	30.00

DECIDUOUS SEEDLINGS

	Per 100	Per 1000
Ash, Green		
2 to 3 ft.	$4.00	$35.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.40	20.00
Box, Elder		
3 to 4 ft.	5.60	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.40	20.00
Caragana arborescens		
3 to 4 ft.	7.00	65.00
2 to 3 ft.	6.00	55.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
Cherry, Wild Black		
3 to 4 ft.	7.00	65.00
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
Chokecherry		
2 to 3 ft.	8.00	75.00
18 to 24 ins.	7.50	65.00
Cotoneaster acutifolia		
18 to 24 ins.	8.00	75.00
12 to 18 ins.	5.50	50.00
Elm, American		
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
Lilac, Common		
12 to 18 ins.	6.50	60.00
Locust, Black		
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
Honey Locust, Thornless		
3 to 4 ft.	$8.00	$75.00
2 to 3 ft.	5.00	45.00
18 to 24 ins.	3.50	30.00
Maple, Ginnala		
12 to 18 ins.	5.50	50.00
9 to 12 ins.	4.50	40.00
Maple, Soft		
2 to 3 ft.	7.00	60.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.20	28.00
Mulberry, Russian		
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
Oak, Bur		
18 to 24 ins.	14.00	120.00
12 to 18 ins.	8.50	80.00
Oak, Pin		
2 to 3 ft.	22.00	200.00
18 to 24 ins.	14.00	120.00
12 to 18 ins.	8.50	80.00
Oak, Red		
3 to 4 ft.	33.00	300.00
2 to 3 ft.	22.00	200.00
18 to 24 ins.	14.00	120.00
Walnut, Black		
2 to 3 ft.	9.00	80.00
18 to 24 ins.	7.00	60.00
12 to 18 ins.	4.50	40.00
Western Sand Cherry		
2 to 3 ft.	8.00	75.00
18 to 24 ins.	7.00	60.00
12 to 18 ins.	5.00	45.00

Send us your list for quotations.

TERMS: As per our published list which includes satisfactory credit or cash with order.

Please order full bunches. 300 of any variety and size at 1000 rate.

Wholesale growers of the best
Ornamental Evergreens
Deciduous Trees
Shrubs and Roses
Write for our current trade list.
The Kallay Brothers Co.
1251 Madison Ave. PAINESVILLE, O.

ENGLISH IVY

	Per 100	Per 1000
Rooted cuttings	$ 5.00	$ 45.00
1-yr., 2¼-in. pots	15.00	135.00

GILSON GARDENS
Perry, Ohio

PINE CHRISTMAS TREES
Carefully sheared; carefully selected. Big enough to serve you—small enough to give personal attention.
L. C. Gatewood
GATEWOOD CHRISTMAS TREE FARMS
Hart, Mich., and
12th and Vilas St., Leavenworth, Kan.

Scarff's Nursery
FRUITS
ORNAMENTALS
LINING-OUT STOCK
Send for Complete Trade List.
NEW CARLISLE, O.

ROSES ROSES

OUR ADVERTISING SUPPORT HELPS YOU SELL AND MAKE MORE PROFIT.

4 pages in full color in January issue of American Rose Magazine illustrating:

★ BLOSSOMTIME
★ GOLDEN WINGS
★ JUNE BRIDE
★ CHUCKLES
★ GAY GYPSY
★ MICHELE MEILLAND

Also a complete line of popular patented and standard varieties. Send for our list now!

Bosley's Northland Roses Sell Better

THE BOSLEY NURSERY

Phone: EL 2-3308 **Mentor, Ohio**

NEOSHO'S HYBRID ELM

The first Hybrid Elm introduced to the trade. The fastest grower and fastest seller.

	Per 10	Per 100	Per 1000
6 to 8 ft.	$1.80	$1.60	$1.50
8 to 10 ft.	2.15	2.00	1.85
10 to 12 ft.	2.55	2.30	2.15
1¼ to 1½-in. cal.	2.90	2.60	2.40
1½ to 2-in. cal.	3.25	3.00	...

Each tree has been staked

Roses — Evergreens
Shrubs — Shade — Fruit

Write for price list
or
Send your list for Quotation

NEOSHO NURSERIES
Neosho, Mo.

PEACH PITS

California Lovell Peach Seed

We supply the leading nurseries of America and also export. Write for prices.

RUDY BONZI ENTERPRISES
(Successors to Gray Nurseries)
Rt. 4, Box 3115
MODESTO, CALIF.

WE OFFER...
Our General Line of
SMALL FRUIT PLANTS
Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

ness with concerns that look prosperous. Advertising should have a professional appearance.

Professor Smith advised businessmen to be civic minded; performing civic activities establishes an individual as a person who is interested in his community, the speaker declared.

Do not be afraid to blow your own horn. Give information about accomplishments to the local newspapers, he advised. Be association-minded and share the burden of work, was further advice.

Newspaper Advertising

A rapid-fire presentation entitled, "How to Use Newspapers in Advertising," was delivered by Robert Witte, manager, retail advertising department, Minneapolis Star, and two of his assistants. Mr. Witte stated that the title of his talk should be, "Stop Wasting Your Money on Advertising." Much money is spent inefficiently, he added. Money put into advertising must be an investment. The volume of advertising increased in 1954, he pointed out, and this led to a recovery of business in 1955. The same thing happened in 1957 and 1958.

The three keys to good advertising are the budget, timing and the message. Referring to the first key, he stated that in planning a budget an estimate is made of what the gross business will be for the coming year. A certain percentage of that amount should be selected. According to figures of the American Association of Nurserymen, the average is 2.5 per cent, but this takes in failing nurseries, so that the figure of 3.5 per cent was used by Mr. Witte to show how a sum is determined for use in advertising.

The facts to be weighed in setting the budget percentage are (1) Line of business; (2) length of time in business; (3) store policy; (4) size of store; (5) location of store; (6) competition; (7) business conditions, and (8) experience and experimentation. Breaking down the budget by media was next done. Mr. Witte pointed out that newspaper advertising accounts for 84 per cent of all money spent in advertising.

The timing of advertising is important. Buying, said Mr. Witte, follows a pattern year after year. Some sales patterns are obvious, as for air conditioners; others, as for clothes dryers, are not so obvious. He advocated advertising when the customer buys and decreasing it when the customers are not buying. The sales curve and advertising curve should follow each other.

Turning to the subject of the mes-

sage in advertising, Mr. Witte pointed out that the good advertisement contains the four touchdowns to copy success. These are attention, interest, desire and action, known as the "A. I. D. A." formula. A good advertisement must establish an identity, a character, a style and an image for the store. A good advertisement says "You" to the customer; a good advertisement sells benefits.

NEW MINNESOTA MUMS

Two new garden chrysanthemums especially adapted to northern regions have been developed by the University of Minnesota department of horticulture, St. Paul, Minn., and are being introduced to the public in 1959. The new varieties, Tonka and Prairie Moon, bring to 39 the number of garden chrysanthemums developed by the university for northern climates.

Tonka is described as a fully double, deep yellow variety, three and one-half inches in diameter, with clean, rich green foliage. The plant is said to reach a height of 20 inches with a spread of 30 inches. The flowers, borne on stiff stems, bloom from early September to hard frost, according to the university.

The creamy-white, double-flowered Prairie Moon is said to produce its 4-inch blooms prolifically on a willowy, clean-foliaged plant that presents a neat appearance all season. It grows to a height of 24 to 30 inches and has a spread of about 18 inches. The reported blooming period is from the first half of September until frost.

EARLIMORE STRAWBERRY

Earlimore, a high-producing June-bearing strawberry developed by the University of Minnesota horticulture department, will be available for planting this spring. The university states that the new extra-early variety has medium large, bright red, firm but juicy berries with a sprightly, pleasant, aromatic flavor.

Total crop yields are said to be high, and fruit size to hold well through the season. Growers report that the brightness of color, even after shipping, has real sales appeal. The fruit is most suitable for fresh dessert use, being fair to good for freezing.

Survival of Earlimore plants after winter has been consistently high in Minnesota tests. According to the university report, the variety develops wide rows of vigorous plants that appear to be highly resistant to leaf spot and to scorch.

Andorra Juniper (top)
Pyracantha lalandi and **Kasan** (bottom)

Pfitzer Juniper

OUTDOOR PLANTS

	Each
Andorra Juniper, 6 to 8 ins.	$0.05
Burk Juniper, 6 to 10 ins.	.14
Blue Hetz Juniper, 6 to 10 ins.	.05
Pfitzer Juniper, 6 to 10 ins.	.07
Pfitzer Juniper, 6 to 8 ins., bands	.16
Euonymus patens, small, medium or large-leaved, 8 to 10 ins.	.04
Forsythia Beatrix Ferrand, 6 to 10 ins.	.08
Forsythia Lynwood Gold, 6 to 10 ins.	.05
Forsythia Spring Glory, 6 to 10 ins.	.04
Euonymus coloratus, 6 to 10 ins.	.04
Pyracantha Kasan, 5 to 6 ins.	.07
Pyracantha lalandi, 5 to 6 ins.	.05

Less than 300, total order, 2c more per plant.
Less than 50 of any item, 4c more per plant.
Shipment now or book your order for spring.
See classified under lining-out stock for other items.

McININCH GREENHOUSES St. Joseph, Mo.

KLYN'S

Roses — Rhododendrons
Magnolias — True Japanese Maples
Hollies — Taxus — Hardy Azaleas

Many other choice items. For 35 years.

GERARD K. KLYN, INC. **Mentor, Ohio**

EVERGREENS
100 acres of choice evergreens ready for sale this fall.
Write for price list.
GRANT'S NURSERY
Rt. 2 Caledonia, Miss.

Bentley's
HARDY PLANTS
QUALITY—SERVICE
Perennials a Specialty.
2559 Mentor Ave. MENTOR, O.

BLUE SPRUCE

MOERHEIMI - KOSTERI - HOOPSI — 2½-in. pots, $1.25 each.

JUNIPER GRAFTS—$50.00 per 100, **canaerti, columnaris, hilli, glauca, scopulorum Pathfinder, burki** regular, **burki compacta, pyramidalis, hetzi.**

TAXUS—2-yr. pots, $25.00 per 100, **cuspidata, hicksi, hatfieldi, andersoni.**

TAXUS—2-yr. beds, $35.00 per 100, **hicksi,** 10 to 12 ins., **cuspidata,** 8 to 12 ins.

TAXUS, JUNIPER, ARBORVITAE — Rooted cuttings available, $12.00 per 100.

We will graft any Juniper variety not mentioned where scions are furnished.

THE PAUL OFFENBERG NURSERY CO.

Propagators and Growers of Evergreens and Ornamentals

3415 E. Livingston Ave.
Columbus 13, Ohio

Finer Liners

	Per 100
Taxus cuspidata	
10 to 12 ins., 2-yr., T.	$30.00
8 to 10 ins., 2-yr., T.	26.00
1-yr., T.	16.00
1-yr., 2¼-in. pots (peat)	18.50
Taxus browni	
1-yr., T.	17.50
Taxus hunnewelliana	
1-yr., T.	19.00
Taxus hicksi	
1-yr., T.	19.00
Thuja globosa	
2-yr., T.	26.00
Azalea mollis	
1-yr., flats, T.	6.00

Free packing if cash accompanies order.

LINCOLN NURSERIES
R. D. 2 Grand Rapids 4, Mich.

PIN OAK SEEDLINGS

(Quercus palustris)

	Per 100	Per 1000
6 to 12 ins.	$ 6.00	$ 55.00
12 to 18 ins.	8.00	75.00
18 to 24 ins.	12.00	100.00
2 to 3 ft.	17.00	140.00
3 to 4 ft.	22.00	190.00
4 to 5 ft.	30.00	250.00

BUR OAK

(Quercus macrocarpa)

2 to 3 ft.	17.00	140.00
3 to 4 ft.	22.00	190.00
4 to 5 ft.	30.00	250.00

Finished material quoted on request.

L. C. Gatewood

LEAVENWORTH NURSERIES
12th and Vilas Leavenworth, Kan.

EVERGREEN LINERS

Extra-heavy, 2½ ins.

	Per 100	Per 1000
Pfitzer Juniper	$22.00	$200.00
Hetz Pfitzer	22.00	200.00
Andorra Juniper	22.00	200.00

DIEHL'S NURSERY
R. R. 1, Box 150
Columbia, Ill.

ROSES

Quality and Service

MENTOR ROSE GROWERS, INC.
MENTOR, O.
Write for your copy of our current list.

Western Pennsylvania Meeting

By Frank Curto

The 12th regular meeting of the Western Region of the Pennsylvania Nurserymen's Association was held December 4 at the Hotel Webster Hall, Pittsburgh. Chairman Bert Morten, Coraopolis, called the meeting to order.

Louis Wissenbach, Pittsburgh, for the nominating committee, submitted the following slate of officers who were later elected by a unanimous ballot: Raymond Hively, Shiloh Nurseries, York, for president, P. N. A.; Herbert Hoechstetter, Hoechstetter's Nursery, Inc., for first vice-president, P. N. A.; Bert Morten, to serve three years as executive director for the Western Region on the P. N. A. executive board; Frank Curto, secretary-treasurer, and Dominic Palombo, South Hills Nurseries, Pittsburgh, program chairman.

The secretary informed the members that he had investigated the possibility of holding the regular regional meetings at the Schenley Park restaurant rather than at the Hotel Webster Hall. He described the restaurant's facilities, after which a motion was passed that meetings during 1959 be held at the new location.

Meeting Dates Set

Dates for the 1959 meeting were set as follows: Spring meeting, March 5; annual picnic, July 9; fall meeting, September 24, and winter meeting, December 3.

John Eisler, Butler, reported that the roadside planting committee made an investigation of the status of the plants along the William Penn parkway. He stated that the committee observed in several areas losses of plant material ranging from 50 to 100 per cent. He further stated that he was submitting a report of the committee's observations to Mr. Chamberlain, of the highway department.

Louis Wissenbach, Squirrel Hill Nursery, Pittsburgh, then informed the members of a meeting he had attended with several florists concerning the cosponsorship of a flower show in the new Civic arena, in

PHLOX, MUMS, DELPHINIUMS, PANSIES

General line of HARDY PLANTS.

Sand loam—field-grown stock. Landscape grade or lining-out stock available for spring sales beginning March 15. Contract growing for fall, 1959, and spring, 1960, sales.

See Bert Van Engen at the Illinois State Nurserymen's and National Mail Order Nurserymen's conventions, January 12 to 14.

Or Write:

VAN ENGEN'S KALAMAZOO GARDENS NURSERY

206 Richard Ave. **Kalamazoo 33, Mich.**

Phone: FI 5-8190 or MO 5-7103

CORKSCREW TREE

(Salix Matsudana Tortuosa)

Oriental Horticultural Curiosity

From the Hupeh Province of East Central China. Branches both large and small grow upward with an exotic corkscrew twist.

This tree is also known in common parlance as Corkscrew Tree, Corkscrew Willow, or Contorted Hankow Willow.

4 to 5 ft., $2.50 each, $25.00 per dozen
Dormant, heavy field liners, $30.00 per 100, $250.00 per 1000.

BEARDSLEE NURSERY
Perry, O.

1961. He asked the membership to consider displaying gardens in this show. Details of the event will be released in the future.

He then gave a short talk on the necessity of having a full-time executive secretary for the P. N. A. He stated that such a man is necessary for the advancement and proper operation of the state organization and that this topic would be the major item discussed at the annual winter meeting of the P. N. A. He added that with the employment of an executive secretary, it would be necessary to increase the dues.

The meeting was then turned over to Mr. Hoechstetter, program chairman, who introduced Captain Snively, of the United States Navy. The captain gave an interesting lecture on the mission of the navy and described the new equipment now being developed for the naval forces.

Tree Moving Data

The next speaker was M. W. Staples, field supervisor of the Davey Tree Expert Co., Kent, O., who gave a talk, illustrated with slides, on the moving of large trees, the selection of trees for home and street planting and the problems of the arborists.

After the meeting's dinner adjournment, Mr. Hoechstetter presented David G. Leach, a specialist in azaleas and rhododendrons, who gave a talk on and showed pictures of his safari in Africa.

The meeting was concluded with the showing of Kodachrome slides taken on a recent trip to Canada by Mr. Morten.

EXPANSION of Marcell's Nursery & Greenhouse at Banning, Calif., has more than doubled the previous facilities, adding a new salesroom and fertilizer department. Two acres are planted to nursery stock.

M. MEYER & SON NURSERY

5439 S. Hydranlic Wichita 16, Kansas

	Per 1000
Juniperus virginiana (Red Cedar)	
1-yr., 2 to 4 ins.	$ 15.00
2-yr., 2¼-in. pots, grafting size	150.00
Juniperus scopulorum (Silver Cedar)	Per 100
3-yr., 3-in. pots, 8 to 12 ins.	$20.00

B&B EVERGREENS

	Each
Upright Junipers: Canaert, Burk, Pathfinder and Silver Glow	
3½ to 4 ft.	$4.00
4 to 5 ft.	4.50
Arizona Cypress, blue or green	
4 to 5 ft.	4.00
Berckmans Goldtip Arborvitae— Brewers' Hybrids	
24 to 30 ins.	2.25
30 to 36 ins.	2.50
Excelsa Arborvitae	
30 to 36 ins.	2.25
3 to 4 ft.	2.50
Pfitzer Juniper, well filled	
15 to 18 ins.	2.25
18 to 24 ins.	2.50

SHADE AND ORNAMENTAL TREES

	Each
Hybrid Elm	
5 to 6 ft.	$1.25
6 to 8 ft.	1.75
8 to 10 ft.	2.25
1¼ to 1½-in. cal.	2.75
Sycamore and **Silver** (Common) **Maple**	
5 to 6 ft.	1.00
6 to 8 ft.	1.35
Redbud	
3 to 4 ft.	.75
4 to 5 ft.	1.25
Plum, Prunus Newport	
4 to 5 ft.	1.00
5 to 6 ft.	1.25

EVERGREEN GRAFTS

(Grafted on Juniperus virginiana understock.)

Blue Haven **Keteleer**
Canaert **Pathfinder**
Dundee **Burk**

Minimum order 100.
100 rate, **45c** each
300 or more, **40c** each

IMPERIAL

(Plant Patent Pending)

The superior new Honey Locust with a straight stem and well-proportioned, shapely head.

Write us for complete information and listing all items.

NURSERYMEN FOR 75 YEARS

THE COLE NURSERY CO. PAINESVILLE, OHIO

COVER ILLUSTRATION

Juniperus Rigida

One of the least typical of the juniper genus is the needle juniper, Juniperus rigida. The specific name assuredly does not apply to the plant itself, which is anything but rigid in appearance; rigida, however, is well applied to the foliage, which is not only needlelike in form but as sharply pointed.

Native to Japan, Korea and north China, the needle juniper usually grows as an arborescent shrub and has been known to reach a height of 30 feet; as do others in the genus, it matures as either a shrubby tree or treelike shrub, and its ultimate form, under cultivation, can be determined by pruning.

Described as pyramidal or columnar, with ascending branches and pendulous branchlets, the tree has

Juniperus Rigida

a head that is loosely formed, as compared with most of the upright-growing species and forms, and much more graceful in appearance. The leaves are one-half to one inch long and are awl shaped, tapering from the middle to spiny points. They are light green, deeply grooved on top, and have a narrow white band on the prominently keeled underside.

The plant pictured on the cover, while not a well-groomed specimen, does show an outstanding characteristic of the species that is much more conspicuous to the casual observer than the rather long, rigid and sharply pointed needles; that is the unusual manner in which the foliage is carried. As can be seen in the illus-

LINING-OUT STOCK

For Shipment Spring, 1959

POTTED and TRANSPLANTED STOCK

	Each Per 100	Each Per 1000
ARBORVITAE, Woodward Globe		
1-yr., 2½-in. pots	$0.25	$0.17½
BUXUS, KOREAN		
2-yr., 3 to 6 ins.	.25	.22½
3-yr., 4 to 6 ins.	.27½	.25
BUXUS, SEMPERVIRENS		
1-yr., pots, 4 to 6 ins.	.20	.17½
2-yr., pots, 4 to 6 ins.	.22½	.20
2-yr., pots, 6 to 8 ins.	.25	.22½
EUONYMUS RADICANS ERECTUS		
1-yr., pots, 6 to 8 ins.	17½	.15
1-yr., heavy plants	.22½	.20
HEDERA HELIX (Baltic Ivy)		
2-yr., 12 to 14 ins., stems	.12	.11½
JUNIPER, HETZI, blue		
2-yr., pot, 6 to 8 ins.	.22½	.20
3-yr., in beds, heavy	37½	.35
JUNIPER, PFITZERIANA		
2-yr., pots, 6 to 8 ins.	.22½	.20
3-yr., pots, 8 to 10 ins.	.27½	.25
3-yr., T., in beds	.37½	.35
MAHONIA AQUIFOLIUM (Holly Grape)		
2-yr., pots, 6 to 8 ins	.22½	.20
TAXUS CUSPIDATA		
1-yr., pots, 6 to 8 ins.	.20	.17½
4-yr., T., light	.37½	..
4-yr., T., heavy	.45	..
TAXUS HICKSI		
1-yr., pots, 6 to 9 ins.	.20	17½
3-yr., T., under lath	.45	..
VIBURNUM TOMENTOSUM PLICATUM		
2¼-in. pots, 6 to 8 ins.	.25	.22½
2½-in. pots, 9 to 12 ins.	.35	.30
WEIGELA VANICEKI		
1-yr , pots, 6 to 10 ins.	.20	.17½
2-yr., 3-in. pots	.27½	.25

Write for complete list. Landscape stock in October 1 issue.

FLORAL GARDENS NURSERY

25 miles west of Dayton, O. Rt. No. 35

Eaton, Ohio

Specimen Landscape Materials Our Specialty . . .

TAXUS

W. A. NATORP CO.
4400 READING ROAD
CINCINNATI 29, OHIO

Visit our nurseries when in Cincinnati

PFITZER JUNIPER

Sheared, Heavy

	Each
1000 18 to 24 ins.	$2.00
1000 24 to 30 ins.	2.50

NOLLAU NURSERIES

2012 West Blvd. Belleville, Ill.

tration, from a short distance these densely twigged, elongated foliage clusters resemble festoons of Spanish moss hanging from a southern oak.

With a little attention while in the formative stage, this species can be induced to mature as an attractive, well-proportioned shrub, displaying to advantage the natural gracefulness of its slender branches and pendulous branchlets and offering contrast to and relief from the more formal aspects of the much-used ornamental evergreens. J. G.

MINNESOTA CONVENTION

[Continued from page 7]

The white-fringed beetle is another pest to watch, said Mr. Anderson. It has spread northward to Tennessee. European chafer is a pest found in the east.

Dutch elm disease is as close as Madison, Wis., and southern Iowa, related Mr. Anderson. It has not been found in Minnesota, but inevitably it will spread within the state's borders. It is important to catch infestations in the early stages, he emphasized, and urged nurserymen to report any suspicious pest or diseased plant found in their nursery.

Chemical Weed Control

Reporting on work being conducted in the state chemical weed control was K. L. Blanchard, agronomist, state department of agriculture, bureau of plant industry. The work was divided into three phases—first, discovery of what chemical can be used for weed control in coniferous plantings;second, learning when to treat, and third, learning how often the treatment can be applied.

Last year, related Mr. Blanchard, a report was made on Amino-triazole. Work has continued with this chemical. Up to three pounds per acre were used in 1957. He pointed out that Amino-triazole can be used only on black and white spruce and Norway pine.

This year work was done on determining when to use chemicals on these three species. Two pounds per acre of Amino-triazole were used; the use of three pounds per application was discarded. Seedlings from 1 to 18 weeks old were sprayed. Simazine and seven other compounds were tried. Four of these look good, he related.

Mr. Blanchard showed colored slides of the work being carried on. Applications of Amino-triazole at a rate of one pound per acre were made up to six weeks, with little injury. After six weeks, the injury rate increased rapidly. Similar re-

TREE LIST FOR SPRING 1959

	Per 100	Per 1000	Per 1000 in 10,000 lots
Upright Yew, from seed, several times sheared			
6 to 10 ins., XX	$65.00	....	....
Scotch Pine			
(2-1), 8 to 12 ins.	12.00	$60.00	$56.00
(2-1), 4 to 8 ins.	10.00	45.00	42.50
(2-0), 6 to 10 ins.	8.00	34.00	32.50
* (2-0), 4 to 8 ins.	7.50	24.00	22.00
* (2-0), 3 to 6 ins.	6.00	22.00	20.00
(2-0), 2 to 4 ins.	5.00	16.00	14.50
Scotch Pine, Auvergne, race Noble			
(2-1), 6 to 12 ins.	12.00	60.00	56.00
(2-0), 3 to 6 ins.	8.00	26.00	24.00
Austrian Pine			
(2-1), 4 to 8 ins.	10.00	45.00	42.50
* (2-0), 3 to 6 ins.	6.00	22.00	20.00
Colorado Blue Spruce			
(2-2), 6 to 10 ins. (this one item, fall only)	20.00	....	....
* (3-1), 6 to 12 ins.	14.00	75.00	72.50
* (3-0), 5 to 10 ins.	9.00	45.00	42.50
(3-0), 3 to 5 ins.	6.00	26.00	24.00
Norway Spruce			
(3-1), 6 to 14 ins.	12.00	70.00	67.50
* (3-0), 6 to 12 ins.	8.00	40.00	37.50
* (3-0), 3 to 6 ins.	6.00	25.00	23.00
White Spruce			
(3-1), 6 to 12 ins.	12.00	70.00	67.50
(3-0), 5 to 10 ins.	8.00	45.00	42.50
(3-0), 3 to 5 ins.	6.00	25.00	23.00
Black Hills Spruce			
(3-0), 4 to 8 ins.	8.00	40.00	37.50
(3-0), 2 to 4 ins.	6.00	25.00	23.00
Douglas Fir			
(2-0), 3 to 8 ins.	6.00	28.00	26.00
Ponderosa Pine			
(2-1), 3 to 6 ins.	8.00	40.00	....
Norway Pine			
(2-1), 3 to 6 ins.	8.00	40.00	....
Mugho Pine			
4 to 8 ins., XX	35.00	....	....

*Write for price on 50,000 or more of one grade.

TERMS: Cash with order, please, or 1/3 deposit, balance before shipment. 5% for cash with order. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order $10.00. Packing charges included in price of trees.

MATTHEWS NURSERY

Harbor Springs, Mich.

Telephones: 123, 124 or 732

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.

ONARGA, ILL.

ORNAMENTALS

TREES SHRUBS EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois

EVERGREENS

Growers of Quality Evergreens Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.

Established 1864 : STURGEON BAY, WIS.

Finest Quality

PERENNIALS and SHRUBS

Write for complete trade list.

KINGWOOD NURSERIES

MENTOR, O.

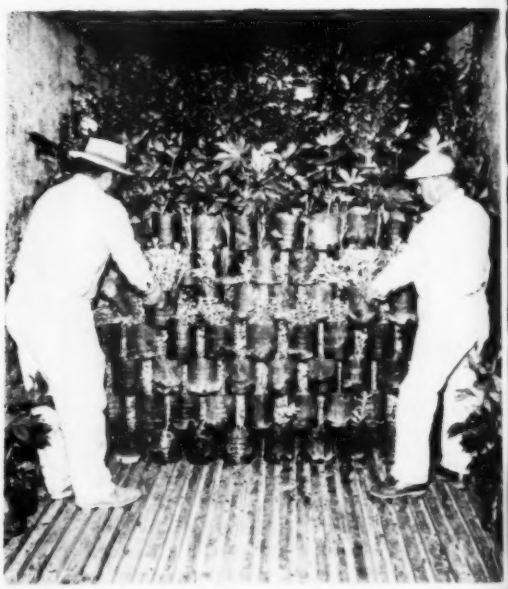
INCREASE YOUR SALI...
1, 2 & 5 GAL. CONTAI...
ANY ORDER OF $250.00 OR MORE D...

Shipping costs are low! So low, it makes good business sense to order MN quality every time!
This is quality you can depend upon. Choose from over 1300 varieties of the world's finest container grown ornamentals. Healthy plants whose husky root system have never l... their original growing soil are delivered at your nursery--ready to sell!

Place your order in advance so shipment can be made on time. Select and reserve your stock today.

We ship all over the United States. For complete details on semi shipment direct to your nursery, write for further information.

MINIMUM ORDER $250.00
packing, loading and bracing are free.



Deep semi trailers like this, line up in a long row at the big MN docks. Containers are carefully stacked and securely arranged. This semi will leave with hundreds of MN containers for nurserymen near and far.

LI AND PROFITS WITH MN
AIR GROWN PLANTS
E DVERED DIRECT TO YOUR NURSERY

Healthy, husky container stock, individually grown with your customers in mind, still in their original growing soil and ready for planting any time to bring you year 'round profit.

HERE IT IS! More color — more information — more listings! The all-new MN general catalog for 1958-1959 is ready for you now. Lists and describes over 1300 varieties of pot grown ornamentals. More color photographs than ever before. Write us on your letterhead today for your FREE copy!

MONROVIA NURSERY CO.

P.O. BOX Q, AZUSA, CALIFORNIA

FUSILIER NEW COLOR SENSATION—BRIGHT RED OUTSTANDINGLY COLORED FLORIBUNDA ROSE

Your customers will want Fusilier — you need Fusilier.

Grade	Retail	1 to 9	10 to 19	20 to 99	100 to 249	250 and up
No. 1½	$2.50	$1.28	$1.12	$1.00	$0.96	$0.88
No. 1	2.50	1.60	1.40	1.25	1.20	1.10

Also a complete list of patented and standard varieties.

THE BOSLEY NURSERY Mentor, Ohio Phone: ELmwood 2-3308

Bosley's Northland Roses Sell Better — Send for Our List

HARDY MUMS AND PERENNIALS

Our list contains the newest and best varieties available in the country. Plants furnished are fully developed, field-grown clumps, ideal for use as stock plants for your propagations. Write for our complete list of Mums and fine perennials.

DAPHNE CNEORUM (Garland Flower)

This beautiful evergreen subshrub is acclaimed by leading horticulturists as the finest available in its category. Unexcelled as an edging or specimen in front of foundation plantings. Highly scented, rose-pink flowers cover the foliage in spring, bloom intermittently in summer and quite fully again in autumn. The plant itself never grows taller than 8 to 10 ins. Our strain has proved hardy and easy to grow. Complete planting directions furnished with each shipment. The material supplied is ideal for potting, canning or lining out in the field. Every year is a sellout, so order now to avoid disappointment.

2-in. pots ..... Per 10, $3.00; Per 100, $25.00

1-yr., 6 to 12 ins., bushy and branched ..... Per 10, 4.50; Per 100, 40.00

P. O. Box 189 **THE JOSEPH F. MARTIN CO., INC.** **Painesville, O.**

sults can be obtained on white spruce, but Norway pine is more susceptible, being safe for a period of five weeks at the 1-pound rate. On black and white spruce, application can be reapplied at the eighth, ninth and tenth weeks.

Next, said Mr. Blanchard, tests will be made to determine how often the seedlings can be sprayed in the six weeks' period. He believed that chemical compounds will come into being which will be favorable to different plants. It is just necessary to find them through further research efforts.

Plant Pest Law

Commenting on the proposed plant pest law for Minnesota was Walter P. Trampe, supervisor of nursery inspection. He related that the law will be submitted this year to the legislature. A new law is necessary, he said, because the old one is vague and wordy, containing 2,400 words compared with 1,500 words in the new law, even though the latter contains more definitions. In the new law, violations are spelled out, he noted.

The nursery business has undergone a change, believed Mr. Trampe, and many merchandisers of nursery stock do not know anything about plants. Therefore, a new law is needed. Mr. Trampe said there is no change in the basic intent of the law. The fee schedule is the same as it was when the law was revised two years ago.

Prior to a talk on consumer motivation delivered by Robert L.

TREE SEEDS

CONIFERS

We have the best equipped plant for extracting, processing and storing evergreen seeds in the middle west.

Since offering our seeds direct to the nurseries, our list of satisfied customers has doubled each season.

Write for prices.

IRON MOUNTAIN EVERGREEN CO.

Iron Mountain, Mich.

OHIO'S LAKE COUNTY

One of the world's greatest nursery centers.

Send for free booklet and map.

Names, locations and types of plants grown by 83 members representing 4,000 acres of the very finest nursery stock. Write to:

THE LAKE COUNTY NURSERYMEN'S ASSN.

Box 49, MENTOR, OHIO

VOSTERS

NURSERIES AND GREENHOUSES, INC.

Tropical Foliage Plants for Interior Decor

Main Office,
Secane, Pa.
(Suburban Philadelphia)

Cutler, Florida
Perrine, Florida
Wilmington, Delaware

Smith, chairman, marketing department, Syracuse University, Syracuse, N. Y., a humorous skit on selling nursery stock was presented. Written by Mrs. Russell Zakariasen, the skit starred Robert Utecht, executive secretary, National Landscape Nurserymen's Association, and Judd Rostron, Homedale Nursery, Hopkins.

Rounding out the day's activities were a cocktail hour, courtesy of the J. V. Bailey Nurseries, St. Paul, and the annual banquet. Entertainment included several musical acts and a pickpocket artist who performed his specialty on several nurserymen.

Opening the second day's activities, Tuesday morning, Professor Smith talked on public relations and the nurserymen. A summary of this talk appears elsewhere in this issue.

After calling the business session to order, President Andrews received a report that the legislative committee had gone over the plant pest bill and found it agreeable to nurserymen in the state.

Highway Report

Reporting as chairman of the highway beautification committee, Lawrence Bachman related that this past year several contracts for construction of sections of the new interstate highway had been awarded in Minnesota. During July through September, three separate contracts were awarded, each one of which included a substantial amount of plant material. The bids for planting were included in a prime bid for complete construction. In other words, said Mr. Bachman, the nurserymen on these jobs are all subcontractors of the successful prime contractor. The bids for plant material and labor in these three jobs amounted to just under $46,600.

This is just the beginning, said Mr. Bachman. By the end of 1960 the present plans call for an expenditure of $47,891,000 in Minnesota on the interstate system. During the next 13 to 15 years, a total of 888 miles of new interstate highways will be built.

At the present time most of the plantings are being done on established routes, which are being brought up to freeway standards. On new projects, the plan is to receive bids including plantings and roadside development with the initial bid. The major problem nurserymen face in bidding on this work, said Mr. Bachman, will be the timing. The actual planting will be difficult to schedule, and there may be delays in construction long enough to affect bids seriously through increases in

The Largest, Top-Quality MULTIFLORA ROSE Production in America

Just one of our choice Multiflora blocks—photo taken July 5, 1958.

We grow and ship millions of plants to every corner of the country. We can ship whenever you specify, but we urge you to cover now. We are always "cleaned out" come spring.

	Per 100	Per 1000	10,000 Rate Per 1000
Conservation Grade, 3 mm., 8 to 12 ins.	....	$13.50	$12.50
No. 2, 2/16 to 3/16-in. cal., 12 to 18 ins.	....	18.00	16.75
No. 1, 3/16 to 1/4-in. cal., 15 to 24 ins.	....	24.00	22.50
Jumbo, 1/4 to 3/8-in. cal.	$ 5.00	36.00	33.00
Country Club, 3/8-in. cal. and up	10.00	60.00	....

FORREST KEELING NURSERY
Hugh Steavenson, Prop.
Elsberry, Mo.

The Homestead Nurseries
HG Benckhuysen. Boskoop. Holland
Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

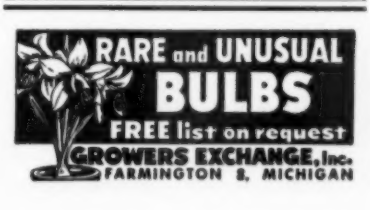
GARDEN MUMS and GROUND COVERS
CUNNINGHAM GARDENS, INC.
Waldron, Ind.

THE HOME NURSERY
Corliss Ingels **LaFayette, Ill.**
Since 1887 in Stark County
At the junction of Rt. 17 and 75
Catering to midwestern landscape nurserymen.
Shade Trees—Shrubs—Evergreens.
Write for complete Wholesale List

Monrovia's New Lantana Patents

This organization is now licensed to grow the six new Trailing Lantanas (all under patent) developed by Monrovia. We are concentrating on the sale of these exceptional plants in New England, New York, New Jersey, Pennsylvania, Maryland and Virginia and, of course, will ship to economical midwest and southern points. These new trailers are all very useful in cold climates for hanging basket and tub work. Baskets in various stages of growth will be available at wholesale at the nursery in April and May. Please ask for details.

WHITE FLOWER FARM
Litchfield 40, Conn.



BERRYHILL'S

EUONYMUS ALATUS and EUONYMUS ALATUS COMPACTUS

Lining-out, wrappers and B&B sizes in quantity.

Euonymus Alatus Compactus

One block of 4-yr., heavy transplants.

	Each 100 rate	Each 1000 rate
Euonymus Alatus		
2-yr., 2-in. pots	$0.20	$0.18
4-yr., TT., 18 to 24 ins.	.50	.45
5-yr., TT., 24 to 30 ins.	.75	.70
3½ to 4 ft., B&B	2.75	..
4 to 4½ ft., B&B	3.50	..
Euonymus Alatus Gracilis		
4-yr., TT., 15 to 18 ins.	.50	.45
5-yr., TT., 18 to 24 ins.	.60	.55
3½ to 4 ft., B&B	2.75	..
Euonymus Alatus Compactus		
2-yr., 2-in. pots	.20	.18
4-yr., TT., 10 to 15 ins.	.45	.40
4-yr., TT., 15 to 18 ins.	.55	.50
5-yr., TT., 18 to 24 ins.	.75	.70
5-yr., TT., 24 to 30 ins.	.95	.90
24 to 30 ins., B&B	1.60	..
30 ins., B&B heavy	1.90	..
30 to 36 ins., B&B	2.50	..
3 to 3½ ft., B&B	2.85	..

Send your order today! Minimum 50 plants of a variety and size in lining-out grades, please.

BERRYHILL NURSERY CO.

P. O. Box 696 Springfield, Ohio

LANDSCAPE MATERIAL

White Pine, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.
Austrian Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.
Red Pine, 2 to 3 ft., 3 to 4 ft., 6 to 8 ft.
Norway Spruce, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.
Hemlock, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.
Dogwood, White-Flowering, 5 to 6 ft., 6 to 8 ft., 8 to 10 ft.
Euonymus alatus, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.
Bayberry, pensylvanica, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

WADE & GATTON NURSERY

Belleville, Ohio
Phone: Butler, TU 3-2191

labor and material costs. Some of these jobs might be bid on a year or two ahead of the time the planting could be done. Anticipating increased costs will be highly important.

Mr. Bachman mentioned some of the projects on which bids will be received next spring and summer. He stated that the association can perform a real service by inspecting highway plantings to see if they come up to the standards they should reach if they are to be an asset in future years.

Roadside Planting Materials

In order to give the nurserymen an idea of the sizes and quantities involved in the plant material used in the three jobs awarded this summer, Mr. Bachman read the following list:

88 Black Hills spruce, three to four feet.
526 red cedar, three to four feet.
7 Colorado spruce, three to four feet.
12 Mugho pine, 24 to 30-inch spread.
28,100 Norway pine seedlings, six to 12 inches.
188 American elm, two to two and one-half inches caliper.
263 American linden, two to two and one-half inches caliper.
251 green ash, two to two and one-half inches caliper.
139 Norway maple, two to two and one-half inches caliper.
303 Almey crab, six feet.
216 Dolgo crab, six feet.
32 silver maple, two to two and one-half inches caliper.
16 sugar maple, two to two and one-half inches caliper.
59 weeping willow, eight to 10 feet.
132 prairie crab, six feet.
112 Savin juniper, 24 to 30 inches.
40 Pfitzer juniper, 24 to 30 inches.
2,190 Tatarian honeysuckle, three to four feet.
2,080 sweet mock orange, three to four feet.
3,230 common lilac, three to four feet.
12 cockspur hawthorn, six feet.
199 acres roadside seeding.
21,540 pounds of seed—60 pounds per acre.
59 tons mulching—one and one-half tons per acre.
348,592 square yards of sodding.

At the conclusion of the committee's report, the resolution mentioned earlier was presented. Further action at the business session was a donation of $50 to the Future Farmers of America. The membership committee's report showed 70 active and 23 associate members, with 14 applications pending.

Research Report

The final committee report was delivered by Richard Andrews, Andrews Nursery Co., Faribault, for the Minnesota Nurserymen's Research Corp. Having completed its second year, Mr. Andrews said, the committee has made considerable progress. The following introductions of the

SPECIALS

	Per 100	Per 1000
Cotoneaster acutifolia		
12 to 18 ins.	$ 8.00	$ 75.00
9 to 12 ins.	6.50	62.50
6 to 9 ins.	5.00	48.50
Improved Bush Cherries		
1-yr., 18 to 24 ins.	7.00	65.00
1-yr., 12 to 18 ins.	6.00	50.00
Improved Bush Cherries, transplanted and branched		
2 to 3 ft.	30.00	285.00
18 to 24 ins.	25.00	200.00
Hardy Crab Apples, seedlings		
No. 1, 3/16-in. cal. and up, straight.		40.00
No. 2, 2.5/16-in. cal. and up, straight.		30.00
Pyrus baccata, seedlings		
No. 1, 3/16-in. cal. and up, straight.		42.50
No. 2, 2.5/16-in. cal. and up, straight.		30.00
Canada Red Rhubarb		
No. 1 division		250.00
MacDonald Rhubarb		
No. 1 division		250.00
Valentine Rhubarb, new		
No. 1 division		400.00

Write for prices on quantity lots.

SUMMIT NURSERIES, INC.

Stillwater, Minn.

SMALL FRUIT PLANTS

Grapes
Currants
Berry Plants

Write for Wholesale Price List

•

FOSTER NURSERY CO., Inc.

69 Orchard St. FREDONIA, N. Y.

CHIPMAN'S CANADA RED

RHUBARB

The quality will please you.
The price will satisfy.

KEELER'S GARDENS

Sioux Falls, S. D.

ARMINTROUT'S EVERGREEN NURSERY

ALLEGAN, MICH.

Seedlings—Transplants
Finished Stock
Send for price list.

Concord Grape Roots
Red Raspberry
Flowering Shrubs
Boston Ivy
Currants

IVAN R. CONGDON NURSERY

North Collins, N. Y.

XUM

BLOSSOMTIME **America's Most Wanted Climbing Rose**

Continuous blooming, fragrant, full-bodied pink.
Your customers want Blossomtime — you need Blossomtime.

Grade	Retail	1 to 9	10 to 19	20 to 99	100 to 249	250 and up
No. 1½	$2.50	$1.28	$1.12	$1.00	$0.96	$0.88
No. 1	2.50	1.60	1.40	1.25	1.20	1.10

Also a complete list of patented and standard varieties.

THE BOSLEY NURSERY Mentor, Ohio Phone: ELmwood 2-3308

Bosley's Northland Roses Sell Better — Send for Our List

JEWELL PROPAGATORS

Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List. Box 457, LAKE CITY, MINN.

university were released last spring: Radiant flowering crab, Centennial crab, Welcome gooseberry, Princess chrysanthemum and Minnehaha chrysanthemum. Mr. Andrews announced that the research corporation had printed a 4-color promotion piece on Radiant crab, which is available to retailers from wholesalers. He mentioned the introduction of two chrysanthemums and a strawberry for 1959 and plans for other introductions.

The business session concluded with the acceptance of the new set of bylaws and the nomination and election of officers as reported earlier.

A. A. N. Matters

The final session Tuesday afternoon, December 2, began with a panel presentation discussing activities of the American Association of Nurserymen. Led by Vincent Bailey, J. V. Bailey Nurseries, St. Paul, A. A. N. director from region VI, the panel members included Richard P. White, executive vice-president, A. A. N.; Kimball Andrews; Russell Zakariasen, and Gordon Bailey, Jr., J. V. Bailey Nurseries. Called upon to mention films available to A. A. N. members and state associations, Dr. White named the following: "Selling Quality," "Design for Working," "Highways and Buyways," "Landscape for Living" and "Basic Technique of Home Landscaping."

An enthusiastic report of the recent A. A. N. management conference was delivered by Gordon Bailey, Jr. He related that two additional

TELL US

How Many Pyrus calleryana

PEAR SEEDLINGS

you need and when you want them—we'll try to get them to you on time. We have a fine block of the finest we ever grew. We don't think you can find a pear understock that will bud earlier—and on through till late. Ask some of the big growers.

	Per 1000
No. 3, 1/16 to 2/16-in. cal.	$25.00
No. 2, 2/16 to 3/16-in. cal.	35.00
No. 1, 3/16 to 1/4-in. cal.	45.00
Extra grade above 1/4-in. cal.	60.00

All 1-yr., from seed planted in April, 1958. No remittance needed to book your order.

WHITEROCK NURSERIES

Geo. M. Jeffus, Mgr.

Box X Crockett, Tex.

RHUBARB

Chipman's Canada Red

First-grade divisions. Can ship any quantity any time. Inquire for prices.

C. D. WRIGHT Hamburg, Iowa

E. C. N.

TAXUS

is our specialty.
Bed stock—Liners
Finished—Specimen.

Send for List

EAGLE CREEK NURSERY CO., NEW AUGUSTA, IND.

FRUIT TREES

Dwarf and Standard

Send for Wholesale List

KELLY BROS. NURSERIES, INC.
Dansville, N. Y.

BE SURE TO BUY GOOD ROSES

Krider's is a dependable source for a complete assortment of top-quality hardy patented and standard sure-to-grow roses, at reasonable prices. Our list including the 1959 A. A. R. S. winners is now ready. Send for it today.

THE KRIDER NURSERIES, INC. — **MIDDLEBURY, IND.**
HOME OF GOOD ROSES — PHONE: MIDDLEBURY 81

conferences are being planned for next year, one at Sagamore, near Syracuse University, August 30 to September 5, and the other at the University of Georgia, Athens, August 9 to 15. In addition, an advanced course will be staged for those who attended this year's conference.

Vincent Bailey mentioned a new trade directory to be published, in which only A. A. N. members can advertise plant materials. Next heard was a report of last summer's A. A. N. convention at Dallas, Tex., by Mr. Zakariasen.

Reviewing the highway planting program, Dr. White mentioned work with the American Roadbuilders' Association, distribution of a booklet entitled "Deadly Motoring or Planted Safety," release of three issues of Highway Landscaping News, a collection of articles for republication in newspapers and the billboard fight on a national level. Dr. White urged every state association to give legislative committees authority to express the opinion of the association on billboard control.

Advantages of the A. A. N. group insurance program were related by Mr. Andrews, after which Dr. White discussed the research program of the national association. He related that projects are nearly completed on container-grown stock, dwarfing rootstocks and refrigeration and storage of nursery stock. Dr. White also called attention to a book on crab apples being published by the A. A. N.

The final report was given by Mr. Andrews, who announced that next year's A. A. N. convention will be held at Philadelphia, at the Sheraton hotel. Cincinnati will host the 1960 convention, with the Hilton Netherland as headquarters, and the 1961 convention will be held at the Statler hotel, Washington, D. C.

Plant Introductions

A report from the horticultural department, University of Minnesota, was presented at the final session of the convention. Relating what is new in fruits and ornamental horticulture was Dr. Leon Snyder, head of the department. He revealed the names

EVERBEARING STRAWBERRIES
A reliable source of popular everbearing varieties. Nice plants. Immediate or future delivery. Can make prompt shipment of large quantities.
C. D. WRIGHT — **Hamburg, Iowa**

SEEDS for the Nurseryman and Forester. Write for catalog.
F. W. SCHUMACHER, HORTICULTURIST
SANDWICH, MASS.

TAXUS
AND
JUNIPERS
Write for Wholesale Price List
ANNA NURSERY
F. G. Anderson, Prop.
Anna, Ill.

1 and 2-Yr.
Plum and Prune Trees
On Myrobalan Root
1-in. cal., 11/16-in. cal., 9/16-in. cal., 7/16-in. cal.
2-Yr. Sour Cherry
1-in. cal., 11/16-in. cal., 9/16-in. cal., 7/16-in. cal.
Send for quantity prices.
ROBERTS NURSERY CO.
Dansville, N. Y.

BOSLEY NURSERY
MENTOR, O.
PIONEERS IN HOLLY

TRAAS' NURSERIES
Langley, B. C., Canada
Clonal Rootstock for Fruit Trees.
M. M. 104, 106, 109, 111, M XXV, E. M. II, Mazzard F. 12/1.
Our Botanical Experience Is Your Guarantee!

PRONOUNCING DICTIONARY
of Plant Names and Botanical Terms
64 pages 3000 names
25 cents per copy
AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

NORTHERN-GROWN
FRUIT TREES
DWARF and STANDARD
Write for wholesale list.
MALONEY BROS. NURSERY CO.
DANSVILLE, N. Y.

AMERICA'S BEST SOURCE FOR HARDY PLANTS
Write for Trade List — MENTOR, OHIO
Wayside Gardens

Specialists in PERENNIALS
SEEDS—PLANTS—BULBS
Perhaps America's largest list of unusual plant materials.
Wholesale catalog on request.
PEARCE SEED COMPANY
Dept. N. MOORESTOWN, N. J.

GRAPE CUTTING SPECIAL
Niagara—Concord—Delaware
$7.50 per 1000, F.O.B.
Wire-bound 100 to bunch.
STATE INSPECTED.
Order Now! No orders accepted after December 1. Sold out. Will cut until March 15 on orders.
PAW PAW PLANT CO.
Paw Paw, Mich.

of the new plant introductions for 1959 as mentioned by Richard Andrews in his report as president of the Minnesota Nurserymen's Research Corp. The first is Earlimore, a vigorous-growing strawberry, which is a good producer; during the coming year, 200,000 plants will be available. The second is Prairie Moon, a fully double white chrysanthemum, blooming in late September and growing to a 24-inch height. The third is Tonka, a fully double deep yellow chrysanthemum, growing to 20 inches in height and blooming in early September. In 1960, a floribunda rose will be introduced, and in 1961, two apricots with medium-size fruit. Work is being done on a cherry plum, related Dr. Snyder.

Reporting on the newly opened landscape arboretum at the university, Dr. Snyder said it was dedicated in September and had at least 1,000 visitors each Sunday during October. He said only plant materials that can be used in landscaping and are hardy and of value in Minnesota will be represented in the arboretum plantings.

Dwarf Fruits

Reporting on work with dwarf fruits was Emil Andersen, instructor in fruit culture at the University of Minnesota. He related that work has not progressed far enough at the fruit-breeding farm to draw safe conclusions.

Presenting colored slides of the work in progress, Professor Andersen said there are apple rootstocks numbered 1 to 16 from the East Malling research station. By use of this dwarf rootstock, complete uniformity can be obtained in plants. This result is not possible when one uses seedling stock. Malling IX rootstock gives a dwarfing effect on apple trees so they grow from six to nine feet. When Malling VII is used, the height ranges from 12 to 15 feet. The other rootstocks in the series provide larger trees and have different root systems.

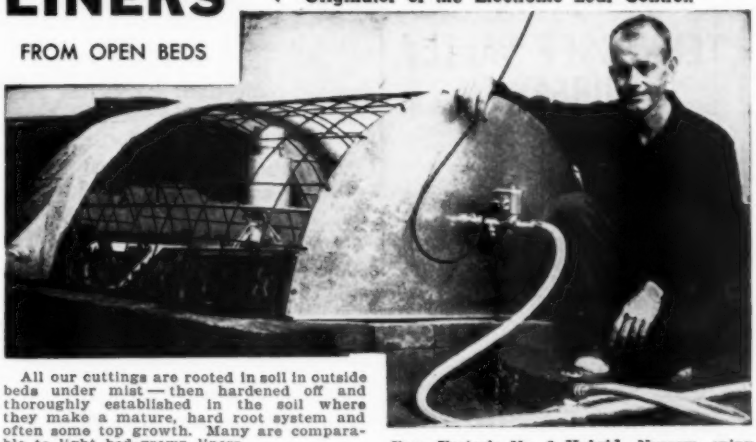
Professor Andersen could not say whether plants grafted on the rootstocks will be hardy in Minnesota. Tests elsewhere show that they are not entirely hardy. Also, there is a question if the dwarfed plants can withstand winds. He recommended the staking of plants grafted on Malling IX stock. There is much interest in dwarfing trees, pointed out Professor Andersen; so dwarfed trees from foreign countries are being tested along with others developed in the United States.

Concluding the horticultural de-

LINERS

FROM OPEN BEDS

Foremost in intermittent mist propagation. Originator of the Electronic Leaf Control.



All our cuttings are rooted in soil in outside beds under mist — then hardened off and thoroughly established in the soil where they make a mature, hard root system and often some top growth. Many are comparable to light bed-grown liners.
BG—bed-grown RC—rooted cutting
Mo., Yr.—date rooted S—seedling

Berberis Crimson Pigmy—Light, BG, liners, 18 mo. old, branched to fairly bushy, 5 to 7 ins., **18c**; heavy, BG, liners, 6 to 9 ins., bushy, **25c**; field-grown, 3-yr., heavy, 8 to 12 ins., **50c.**

Berberis julianae — The hardiest evergreen barberry—cuttings rooted July 57 and kept cut back, very heavy, 7 to 9 ins., **12c**; our usual big rooted cuttings, Aug. 58, **9c.**

Berberis julianae nana — Compact growth, darker green leaf, often called "BPI"—RC, Aug. 58, **10c.**

Berberis mentorensis—Cuttings rooted July 57 and kept cut back, big enough to go directly to the field, 8 to 10 ins., **10c**; our usual big RC, Aug. 58, **7c.**

Buxus sempervirens (Boxwood)—An excellent, bushy strain—cuttings rooted Sept. 57 and kept cut back, 4 to 6 ins., beginning to bush out, **10c.**

Chaenomeles (Flowering Quince)—Both on own root from softwood cuttings. No suckering from these plants.
Nivalis—The best of the white-flowering quinces—BG, liners, 6 to 12 ins., **18c**; 12 to 18 ins., **24c.**
Texas Scarlet—The best for canning because of the profuse red flowers on a compact low plant—BG, liners, 6 to 12 ins., **20c.**

Cherry Laurel—See Prunus.

Cydonia—See Chaenomeles.

Euonymus alatus compactus—RC, June 58, **8c.**

Ginkgo biloba seed — Home-grown, properly cleaned and stored (stratified), with planting suggestions, **$1.45** per lb. Minimum order 5 lbs., 20 lbs. or over, **$1.25** per lb.

Ilex cornuta burfordi—RC, heavy, 6 to 12 leaves, **8c.** Not ready until spring.

Ilex crenata convexa—Cuttings rooted July 57 and kept cut back, beginning to branch well, heavy, RC, **9c**; our usual grade, RC, Aug. 58, **7c.** Not ready until spring.

Ilex crenata hetzi—Large RC, Aug. 58, **7c.**

Ilex crenata rotundifolia — Cuttings rooted Aug. 57, kept cut back, branched, exceptionally heavy, RC, **9c**; our usual large RC, Aug. 58, **7c.**

Ilex opaca (American Holly)—Northern types, no southern hybrids. Guaranteed female and guaranteed male from cuttings—BG, liners, 4 to 6 ins., 17½**c**; 6 to 10 ins., **25c**; 10 to 15 ins., **35c**; for canning in gallon cans, mostly single stem, some lightly branched, BG, liners, 15 to 30 ins., **50c.** Ilex opaca shipped only on March 1, 1959 (because that is the very best time to move American Holly).

Ilex—Foster's No. 2 Hybrid—Narrow, spiny leaves, red berries, fruits heavily, rapid grower, RC, Sept. 58 (ready in late spring), **10c.**

Magnolia grandiflora — Seedlings, stocky, from well-spaced outdoor beds, 4 to 6 ins. and up, **8c.**

Prunus caroliniana (Southern Cherry Laurel)—Seedlings, sheared to keep them bushy, 8 to 12 ins., **8c.**

Prunus laurocerasus schipkaensis (Cherry Laurel)—RC, very large and heavy, Aug. 58, **10c.**

Prunus laurocerasus zabeliana (Cherry Laurel)—Spreading, usually considered the hardiest—RC, Aug. 58, **12c.**

Prunus laurocerasus macrophyllum (Cherry Laurel)—Certainly the prettiest and seems to be even hardier than zabeliana. Large leaves, very dark green—RC, Aug. 58, **20c.**

Prunus laurocerasus officinalis (English Laurel)—Not hardy north—RC, Aug. 58, **10c.**

Thuja orientalis aurea nana (Berckmans Golden Arborvitae)—RC, Feb. 58, growing in soil ever since. About right for a 2½ or 3-in. pot, **10c**; BG, transplants, 8 to 12 ins., **25c.**

Viburnums—All are on their own roots from softwood cuttings.

Viburnum carlesi—RC, June 58, **15c**; BG, liners, single stem to lightly branched, 18 to 24 ins., **30c.**

Viburnum chenaulti—More shapely and attractive than burkwoodi—RC, June 58, **15c.**

Viburnum juddi — Better than carlesi. A more compact plant with more attractive leaves. Not subject to leaf spot. Flowers really pink—RC, June 58, **15c.**

Viburnum rhytidophyllum (Leather-leaved Viburnum)—RC, July 58, **12c.**

Viburnum tomentosum plicatum (Japanese Snowball)—RC, June 58, **15c.**

We are conducting an interesting experiment with about 50,000 plants in 2x2x4-in. polyethylene plant bands. Using University of California "Mix C", half sand—half peat and liquid fertilizer through a Smith Measure-Mix proportioner. In a new type of semicircular shade house—greenhouse. Why not stop by to see it?

HARVEY TEMPLETON, JR.

phytotektor.

U.S. HWYS. 64-41A
WINCHESTER — TENNESSEE

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

PINK FLOWERING DOGWOOD

AMERICA'S FAVORITE FLOWERING TREE

	Per 10	Per 100		Per 10	Per 100
12 to 18 ins.	$ 7.00	$ 60.00	3 to 4 ft.	$17.50	$150.00
18 to 24 ins.	9.00	75.00	4 to 5 ft.	30.00	250.00
2 to 3 ft.	12.50	115.00	5 to 6 ft.	45.00	400.00

(B&B, add 50c extra per plant)—Write for our new, descriptive wholesale catalog.

Boyd Nursery Co., McMINNVILLE, TENN.

Quality Stock

TENNESSEE VALLEY NURSERY

Cherokee Chief® Red-Flowering Dogwood (Plant. Pat. No. 1710)

(Bare-root)	Per Each 1 to 9	Per Each 10 to 29	Per Each 30 to 100
6 to 12 ins.	$0.90	$0.85	$0.75
12 to 18 ins.	1.15	1.10	1.00
18 to 24 ins.	1.50	1.40	1.25
24 to 30 ins.	1.75	1.65	1.50
30 to 36 ins.	2.35	2.20	2.00

Pink-Flowering Dogwood

(Bare-root)	Per 10 Each	Per 100 Each
6 to 12 ins.	$0.60	$0.50
12 to 18 ins.	1.00	.75
18 to 24 ins.	1.25	1.00
24 to 30 ins.	1.50	1.25
30 to 36 ins.	1.75	1.50

Flowering Crab Apple
Varieties:
Almey, carmine buds and flowers.
Coronaria Charlotte, double pink flowers.
Eleyi, purplish-red flowers.
Floribunda, pink fading to white.
Hopa, carmine buds and flowers.

2 to 3 ft., whips	.60	.50
3 to 4 ft., whips	.85	.75
4 to 5 ft., whips	1.00	.90
3 to 4 ft., whips	.60	.50
4 to 5 ft., whips	.70	.65

Purple-leaved Plum
Varieties: **Newport** and **Thundercloud**

2 to 3 ft.	.45	.40
3 to 4 ft.	.55	.50
4 to 5 ft.	.65	.60

Viburnum juddi, better than carlesi. Delicate pink flowers. Very fragrant. (Bare-root)

15 to 18 ins.	1.25	1.00
18 to 24 ins.	2.00	1.50

Weigela vaniceki, bright crimson flowers. Extremely hardy.

2 to 3 ft.	.60	.55
3 to 4 ft.	.75	.70

Write for our latest wholesale list.
Buy Quality!
There's No Substitute

TENNESSEE VALLEY NURSERY

Hoskins Shadow
Winchester, Tenn.
Phone: WOodlawn 7-2652

CRAPE MYRTLE WILLIAM TOOVEY

The standard of the world in fine red color and size of bloom.

	Each
18 to 24 ins.	$0.45
2 to 3 ft.	.55

CHASE NURSERY CO., INC.
Chase, Ala.

partment reports, Prof. Richard J. Stadtherr said there are two species of crab grass prevalent in Minnesota. One is a tall hairy type, and the other is a smooth type. A lead arsenate compound, PAX, has given good results in a pre-emergence treatment of the soil. Sodar and Dimet provided good post-emergence treatment, but there was some injury to the grass. PMA (phenyl mercuric acetate) and KOCN (potassium cyanate) proved excellent for killing crab grass.

The convention ended with a showing of the new A. A. N. color film, "Basic Technique of Home Landscaping." A trade fair of 12 exhibitors provided interest for the nurserymen during the convention.

FLORIDA FIRM'S EVENT

A short review of the firm's history appeared in a Leesburg, Fla., newspaper as the Florida Nursery & Landscape Co., Leesburg, celebrated its 30th year in business last November. An open house was held by the nursery from November 3 to 8, with refreshments and special discounts on purchases for visitors.

Founded in 1928 as Leesburg Ornamental Nurseries, Inc., by G. W. Pringle, now president; F. B. Turner, and J. Y. Clark, the firm began operation with three employees, a pick-up truck and stock from wholesale nurseries, the news item states.

Since that time, the firm has developed and planted many acres at Leesburg and now maintains branch sales offices at Ocala and Winter Park. At Leesburg, propagation and growing operations are carried on, and wholesale and retail sales are being expanded. There are now 150 full-time employees, including eight graduate landscape architects, while 45 pieces of modern automotive equipment are utilized.

A feature of the firm's main office at Leesburg is a patio where garden clubs from many parts of the state begin tours of the grounds and hold their meetings.

The firm is a member of the Florida Nurserymen and Growers Association, the Southern Nursery Association, the American Association of Nurserymen and the National Landscape Nurserymen's Association.

ARIZONA SHORT COURSE

[Continued from page 14]

plants and the means of achieving such varieties through genetic selection; mutation; radiation of seed; budding a scion on a dwarf rootstock; interstems, which may have a

ARP ROSES — *Beautiful* NEW PACKS for '59

Packages that pop your eyes, please your customers and produce a good profit. Famous Arp-grown quality in every bush. Superb new crop of award-winning roses. Check this thumbnail list:

Case		Contents
L-F	20	16-inch all-foil (green) Ranch House patented roses ..... 40% discount
I-B	25	14-inch all-foil (red) unexcelled standards 65c
R-B	30	Blue-Gold Royal rose, popular 3-cane 55c
T-W	20	Thrifty-Three, mixed $1.00
C-3		12 Collection of 5, mixed .. $1.60

Truckload deliveries from refrigeration. Also bare-root bulk packing and 2-gal. containers.

WRITE FOR COMPLETE WHOLESALE PRICE LIST, VARIETY LIST and FREE selling aids.

ARP NURSERY CO.
Wholesale Growers Since 1922
Box 3338-J Tyler, Tex.

SPECIMEN PLANTS

Chinese Holly Japanese Holly
Ligustrum lucidum macrophyllum
Berberis julianae nana

Shaped plants . . . beautifully grown . . . in quantity.

— Also —

Magnolia grandiflora
Cornus florida

Write for prices or come and select stock. Trailer delivery arranged.

SOUTHSIDE NURSERIES, INC.
Rt. No. 15, Box 471
Richmond, Va.
Phone: BElmont 2-0156
(Nights and week-ends—
SHadyside 8-2434)

EVERGREEN GRAFTS
POTTED LINERS
CONTAINER STOCK
Ask for our latest list.
KENYONS NURSERY
Dover, Okla.

CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolia, Camellias, Pyracantha. Ask for wholesale list.

Wight NURSERIES CAIRO, GA.

SPECIALS

Seedlings:	Per 100	Per 1000
Magnolia grandiflora (Southern Magnolia), 1-yr., 2 to 4 ins.	$ 5.00	$ 40.00
2-yr., 6 to 12 ins.	8.00	60.00
Magnolia Glauca, 2-yr., 4 to 6 ins.	15.00	120.00
Mahonia bealei (japonica), 2 to 4 ins.	10.00	80.00
Berberis thunbergi atropurpurea, 1-yr., 6 to 9 ins.	10.00	80.00
Chinese Chestnuts, 1-yr., 6 to 9 ins.	12.00	100.00
Cutting-Grown:		
Forsythia Spring Glory, 6 to 9 ins.	....	40.00
Spiraea froebeli, layers, 6 to 9 ins.	....	40.00
Spiraea vanhouttei, layers, 6 to 9 ins.	....	40.00
Spiraea thunbergi, layers, 6 to 9 ins.	....	40.00
Weigela vaniceki, 6 to 9 ins.	....	80.00
Viburnum opulus sterile, 4 to 6 ins.	....	100.00
Viburnum tomentosum plicatum, 4 to 6.	....	120.00
Viburnum burkwoodi, 4 to 6 ins.	....	150.00
Viburnum rhytidophyllum, 4 to 6 ins.	....	100.00

	Per 100	Per 1000
Viburnum carlesi (Fragrant Snowball), 9 to 12 ins.	....	$250.00
Ilex rotundifolia, 6 to 9 ins.	....	120.00
field-grown, T., 6 to 9-in. spread	....	230.00
field-grown, T., 9 to 12-in. spread	....	400.00
Ilex microphylla, 6 to 9 ins.	....	120.00
Juniperus hetzi, field-grown, T., 6 to 9-in. spread	....	250.00
Juniperus depressa plumosa, field-grown, T., 6 to 9-in. spread	....	250.00
Euonymus coloratus, 2¼-in. pots	....	150.00
Vinca minor, 2¼-in. pots	....	150.00
Vinca minor, 1 to 3 leads, suitable for potting	....	20.00

Calleryana Pear Seeds (These seeds produce virus-free seedlings on which to propagate pear varieties), $50.00 per lb.

THE SOUTHERN NURSERY AND LANDSCAPE CO., INC.

WINCHESTER, TENN.

Established 1872 **Telephone WO-7-2302**

dwarfing effect on top-worked varieties, and the inversion bark grafting work that has been done at the Arnold Arboretum, Jamaica Plain, Mass.

The afternoon session on the closing day featured an address by Channing E. Jones, Jr., merchandising sales manager, California Spray-Chemical Corp., Richmond, Calif. The talk was on improving sales in the nursery industry. A number of slides showed ideal nursery and merchandising layouts in various sections of the country. He emphasized that one of the main objectives of advertising is to get more people into the nursery and more dollars per clerk man-hours. Leaders should be only well-known staple plants. More net profit will result, he stated, from a larger volume buying of nursery stock. He said the ideal situation today is an even ratio of sales between nursery stock and allied or so-called dry items. A plan of promotion, even for the smallest nursery, should be laid out a year in advance of execution.

The social aspects of the meeting were highlighted by a cocktail party, courtesy of Capital Feed & Seed Co., at Del E. Webb's Highway House, Phoenix, followed by a dinner-dance and entertainment.

HEMLOCK (Tsuga canadensis)

2 to 3 ft. $3.00
3 to 4 ft. 4.00

UPRIGHT YEW (Taxus capitata)

18 to 24 ins. 4.00
2 to 2½ ft. 5.00

Good Quality — Sheared and Transplanted

Write for list of other varieties.

HILLENMEYER Nurseries
GLOBE ON U.S. 25 NORTH
LEXINGTON, KY.

FLOWERING CRAB APPLE LINERS
Peach, Plum, Shrubs, Shade Trees and Fruit Trees
Write for catalog.
GLOBE NURSERIES
Box 249 McMinnville, Tenn.

PINK DOGWOOD LINERS
Silver Maple, Hall's Honeysuckle, Flowering Peach, Forsythia, Crab Apple, Fruit Trees, Poplar, Privet.
Write for trade list.
FLOWER CITY NURSERIES
Rt. 3 McMinnville, Tenn.

JUNIPER GRAFTS
Specimen Evergreens
Moraine Locust
1 and 2-Yr. Tops
Heavy Shrubs
Wilt-Pruf
SNEED NURSERY CO.
P. O. Box 798
Oklahoma City 1, Okla.

PLANT NOTES HERE AND THERE

By C. W. Wood

Pyrethrums for Cutting

A friend who produces outdoor cut flowers for a large Ohio market wants to add pyrethrums to his list. I think the best advice for those who have never grown these somewhat temperamental plants is to go slowly at first until the plant's reaction to the local conditions can be seen. I never grew pyrethrums in large quantities; so I am not an authority on their culture. I have observed them over a half century, however, and have tried to keep in touch with the named kinds as they have come on the market. I am, therefore, glad to offer the following remarks, commencing with several ideas on culture.

Soon after the flowering season has passed is a good time to divide and reset the plants. They need dividing often for best results in size of flower and length of stem. Doing this every third year is a safe rule to follow. The plants also will give good results when their soil is rich. I always preferred well-rotted manure to make sure of this need, and I think it gave best results. As that is not often easy to get, other good forms of humus, if backed up by a complete commercial fertilizer, will often answer the need for organic matter and fertility. I found that the after-flowering period was the best time to add new varieties to our trials rather than to wait until autumn (winter-killing was always more severe in late-planted stock) or to plant in spring and often lose a year of full flower production. I also found that heavy crops of flowers were possible only in light soil where irrigation was given. As details of planting and cultivation differ little, if any, from those for ordinary hardy plants grown for commercial flower production, these matters need not be discussed here.

Just to show that preferences change with the times, I find that a decade ago I recommended the Robinson strain of mixed colors, not only for cutting but also for the chance seedling of greater than ordinary merit (it is still a good gamble, though scarcely to be recommended for large-scale flower production). In singles, first choice was then and is now Eileen May Robinson, with large, perfectly formed flowers of soft, rose pink and a hearty constitution, but Langport Scarlet and James Kelway in single and Brilliant, Miami Queen, Rose Glory and the lovely but temperamental Florence Shadley in doubles I have ceased to prefer.

Now, I should like to point out the following for the consideration of growers of cut flowers: In singles, Eileen May Robinson, still my choice of all pyrethrums for cutting, and Victoria, an old European variety that, had it been available in this country when we were growing pyrethrums, would have been welcomed greatly because of the heavy production of dark, rose-red flowers on plants of strong constitution.

If I had to grow the double-flowered kinds (and I suppose I would have to do so if I grew for the cut flower market) I should investigate the following kinds:

Buckeye — This old variety and Miami Queen were about the best we had in doubles a quarter of a century ago. The latter has, in my opinion, been superseded by better rose-pink doubles, to be mentioned later; however, Buckeye, because of its pleasing red color and well-formed, double flowers, continues to attract critical attention. It was always an erratic grower here; so I should advise anyone to test it thoroughly before putting a lot of money into plants.

Mrs. C. E. Beckwith — This kind is the best of the double whites that I have grown. It makes a strong plant and produces its well-formed flowers in large numbers. Another feature is its early-flowering habit, which might have some influence on its value for cutting.

Galt Beauty — This is a lovely double pyrethrum, appealing soft pink in color and extremely double and large of flower. I have observed it two or three years in the garden of a friend, where the plant did quite well, but showed some eccentricities. It is advisable to try it in a small way. If it proves to be a hearty doer,

ALDRIDGE NURSERY
VON ORMY, TEXAS
Wholesale Nursery Stock
Complete line of container and field-grown ornamentals
● Better Quality ● Better Value

READY FOR SHIPMENT!

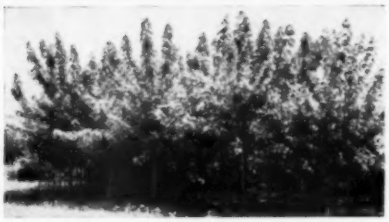
	Each
Biota barkeri (Arborvitae), 5 to 5½ ft.	$2.00
Juniperus, Pfitzer, 30 to 40-in. spread	2.00
Juniperus virginiana keteleeri, 48 to 56 ins.	1.50
Juniperus excelsa stricta, 36 to 40 ins.	2.00
Abelia grandiflora, 22 to 28 ins.	1.00
Cherry Laurel, 3 to 4 ft.	1.50
4 to 5 ft.	1.75
5 to 6 ft.	2.00
Ilex opaca Hume, 4 to 5 ft.	2.00
Ligustrum lucidum compactum, 4½ to 5½ ft.	1.35
Mahonia bealei, 16 to 20 ins., gal. cans	1.00

F.O.B. Dundee

BIG RIVER NURSERY **Dundee, Miss.**

COMMERCIAL Nursery Co.
ESTABLISHED 1900
Decherd, Tennessee

10% DISCOUNT WHEN ORDERING 250 of ANY VARIETY



PINK-FLOWERING DOGWOOD

	Each	Each Per 10	Each Per 100	B&B Add
3 to 4 ft., B.R.		$2.25	$2.00	$0.50
4 to 5 ft., B.R.		3.25	3.00	.75
5 to 6 ft., B.R.		4.25	4.00	1.00
6 to 7 ft., B.R.		5.25	5.00	1.00
7 to 8 ft., B.R.		6.25	6.00	1.00

SILVER MAPLE

	Each	Each Per 10	Each Per 100
6 to 8 ft.		$1.00	$0.75
8 to 10 ft., 1 to 1¼-in. cal.		1.25	1.00
8 to 10 ft., 1¼ to 1½-in. cal.		1.50	1.25
10 to 12 ft., 1½ to 1¾-in. cal.		1.75	1.50
10 to 12 ft., 1¾ to 2-in. cal.		2.00	1.75
2 to 2½-in. cal.		2.50	2.25

CHINESE ELM

6 to 8 ft.		1.25	1.00
8 to 10 ft., 1 to 1¼-in. cal.		1.50	1.25
8 to 10 ft., 1¼ to 1½-in. cal.		1.75	1.50
10 to 12 ft., 1½ to 1¾-in. cal.		2.00	1.75
10 to 12 ft., 1¾ to 2-in. cal.		2.25	2.00
2 to 2½-in. cal.		2.75	2.50

Write for complete list.

HAWKERSMITH & SONS NURSERY **Tullahoma, Tenn.**

it should become one of the best double pyrethrums.

Poinsettia — Although the flower is only partly double, its double row of outer petals and curiously quilled center, together with its deep rose-red color, make it attractive. And it seems to have a good constitution.

I am tempted to include a few plants which are known to me only by brief observation on one or two occasions. Although their reaction to field culture is unkown to me, their outstanding color or form entitles them, I think, to a trial by any grower of painted daisies. Crimson Giant's extra-large flowers impressed me at once, and its velvety crimson color added to my final appraisal that it could become the best of the single reds. Pasadena impressed me as having the possibility of taking the lead in cut flower pyrethrums as soon as it is low enough in price to allow for commercial planting. The temperamental Florence Shadley has long been my measuring stick for beauty in this class of plants. It is an entrancing, glowing pink and has a silver sheen. The pink of Pasadena is lighter, but the silveriness is intensified several times, making the flower look like a piece of the finest silk; the blooms are large, too. I also was impressed

ORIENTAL MAGNOLIAS

SPECIAL OFFERING

Heavy Budded
Many Canes

Soulangeana

2 to 3 ft., B&B	$1.50
3 to 4 ft., B&B	2.25
4 to 5 ft., B&B	3.00
5 to 6 ft., B&B	4.00

Bare-root prices on request.

EXTRA SPECIAL

Light, 2 to 3 ft., B&B (actually measures 3 to 4 ft.)
3 canes and up, not less than 10 buds, $1.25

Fine liners all sizes.

Write for Catalog.

SEMMES NURSERIES, INC.
Semmes, Ala.

Quality stock plus pleasing service. Inquiries invited.
87th Year of Growing
Box 88-A Sherman, Tex.
TEXAS NURSERY CO.

Gilmore
Spring Bulb List Ready
Packaged or Bulk
GILMORE PLANT & BULB CO.
Julian, N. C.

TREES

SHADE AND FLOWERING

	Each 10 to 50	Each 50 to 100
Amelanchier		
6 to 8 ft.	$3.25	....
Birch, Cut-leaved Weeping		
5 to 6 ft.	1.85	$1.70
6 to 8 ft.	2.50	2.35
8 to 10 ft.	3.25	3.00
10 to 12 ft.	4.25	3.75
Birch, European White		
5 to 6 ft.	1.40	1.30
6 to 8 ft.	2.00	1.85
8 to 10 ft.	2.75	2.60
10 to 12 ft.	3.75	3.60
Franklinia alatamaha		
4 to 5 ft., NB.	4.25	....
5 to 6 ft., NB.	5.75	....
Golden-Rain Tree		
5 to 6 ft.	3.75	....
Hawthorn, Washington		
4 to 5 ft.	3.25	3.10
5 to 6 ft.	4.00	3.85
Magnolia soulangeana		
5 to 6 ft., B&B	7.00	....
Maple, Norway		
6 to 8 ft.	2.75	2.50
8 to 10 ft., 1¼ to 1½-in. cal.	4.75	4.50
10 to 12 ft., 1½ to 2-in. cal.	6.50	6.00
2 to 2½-in. cal.	9.50	9.00
Maple, Sugar		
6 to 8 ft.	3.25	3.00
8 to 10 ft., 1 to 1¼-in. cal.	4.25	4.00
8 to 10 ft., 1¼ to 1½-in. cal.	5.25	5.00
10 to 12 ft., 1½ to 2-in. cal.	7.00	....
Oak, Pin		
6 to 8 ft.	3.50	3.25
8 to 10 ft., 1¼ to 1½-in. cal.	5.50	5.00
10 to 12 ft., 1½ to 2-in. cal.	9.00	8.00

NOTE: Ask for prices on Shade and Flowering Trees in larger sizes and quantities, also our Complete Wholesale Price List.

WAYNESBORO NURSERIES
Waynesboro, Virginia

CAPITOL GARDEN FARMS

Growers of Quality Nursery Stock

Junipers Our Specialty
Root-Pruned and Sheared

160 acres of the finest nursery stock, also canned merchandise.

Write for Catalog

P. O. Box 7157 or 4200 N. May
Oklahoma City, Okla.

HOLLIES

AMERICAN HOLLY
(Ilex opaca)

The most wanted plants in America. We offer these only in named varieties, of tried and proven worth.

ORIENTAL HOLLIES

Popular varieties, such as Ilex burfordi, I. cornuta femina, I. hetzi and I. rotundifolia. Write for descriptive wholesale price list.

STEPHENS NURSERIES
Semmes, Ala.

by the extra-heavy substance of another high-priced variety, Senator. Substance in a painted daisy is of great importance so far as cutting qualities are concerned, but size of flower often plays an important part; Senator has both. In addition, it has a pleasing deep rose-red color.

Brunnera Macrophylla

Several years ago a neighborhood grower near New York city asked for an anchusa that was not quite so coarse as A. italica and its forms (we are now told to call it A. azurea). It was recommended that he try A. myosotidiflora (we are now told to call it Brunnera macrophylla). A short time ago I received the following note from him:

"The Siberian forget-me-not has made many sales for me since I added it, and it has been satisfactory in my customers' gardens. One or two things about it I have found out from experience. It is best, in the climate of New York city, to give the plant some shade during the afternoon. I have found also that dividing the clumps about every three years gives much better results than trying to feed big clumps. I cannot imagine a neighborhood nurseryman trying to do business without this plant."

I agree with our correspondent's words of praise for the plant. Although afternoon shade is not essential to the plant's well-being, it would no doubt profit by some protection from the sun during the hottest part of the day. It likes high living; so one should give the plant a fertile soil. I notice that some of the more fastidious gardeners cut away some of its broad, ovate, heart-shaped leaves at the bottom of the plant to relieve any suggestion of coarseness. (It is fortunate that not many gardeners are so sensitive.) The plant grows about 18 inches in height, producing masses of lovely forget-me-not flowers for a long time in spring and early summer (usually May and June here) and often again in fall. It has many uses in the garden, especially when planted in groups in the border.

Lindelofia Longiflora

While I was thinking about borageworts in general, the Himalayan Lindelofia longiflora came to mind. Here is a plant of great charm, especially to lovers of blue flowers (and they are legion). It is a plant that surely would become popular in all parts of the country where it would be hardy. Just how hardy it is, I do not know; certainly, it is not hardy this far north without

TREES
Fruit (also dwarf) •
Nut • Flowering •
Shade •
EVERGREENS •
ROSES •
HEDGES •
VINES •
• SHRUBS
• LINERS

Ozark's revolutionary new colorful package plants are the talk of the industry.

Write for FULL COLOR Wholesale Package Catalog — it shows why Ozark's high quality stock looks better — is better — sells better.

Ozark NURSERY CO.
TAHLEQUAH, OKLAHOMA

ROSE BUSHES

Patented and Standard in
Good Assortment
Bare-Root—Packaged
Write for price list.

C. E. WILSON NURSERIES
Box 400 Jacksonville, Tex.
Phone: 4117

WE SPECIALIZE IN FINE
Azaleas and Camellias
Write for Catalog
FLOWERWOOD NURSERY
GREGORY L. SMITH, *Owner*
Rt. 1, Box 130 MOBILE, ALA.

MEYER LEMON TREES
4 to 5 ft., in new No. 12 cans at $1.25 each. Some of them with lemons.
We do not ship.
MALBIS NURSERIES
Daphne, Ala.
12 miles east of Mobile on U. S. Highway 90.

A General Line of
FRUIT and ORNAMENTAL
TREES and PLANTS
BUNTINGS' NURSERIES, Inc.
BOX 3 SELBYVILLE, DEL.

ample protection, and an ordinary mulch will not keep it through a severe, snowless winter.

It grows to 18 inches in height, making a shapely bush of deep green. Each node produces a long raceme of forget-me-not, tubular flowers which are more than half an inch long, are pink in bud and open to a dark blue color (purplish-blue, perhaps). The plant's growth habits and profuse blooming make a veritable cascade of flowers from mid-June well into July, according to our records. Being easily grown in ordinary garden soil and with enough sun, it should prove popular wherever hardy.

Inula for Cutting and Border

The genus inula, best known in its form elecampane, Inula helenium, a long-used medicinal plant and an inhabitant of old-time gardens, seems to have a poor reputation among some modern horticulturists, perhaps because of the coarseness of some of its members. Botanists describe nearly 60 distinct species, many of which are little more than weeds. Others are far too coarse for any garden except perhaps for the unconsidered places in the wild garden. (By that I do not mean to imply that the wild garden should be a catchall for all the riffraff of hill, dell and valley.) Still others are useful in the rock garden, but these do not concern us now. After deducting all these, there are a few left which are of value for cutting and for border decoration.

Of these, Inula grandiflora would be useful if it were available. It may be in American trade, but I do not find it. I had it in seeds from Europe years ago, lost it during a cold winter a few years afterward and have not found it since. The plant's orange-yellow heads, three to four inches across, in June, on stems two to three feet in length, still remain in my memory as good cutting material; moreover, the plant held its own in the June border.

Another kind, I. Golden Beauty, which I had in seeds from England, made a favorable impression in the same roles. Its golden-yellow heads, about two inches across, on plants to two feet in height, commenced to come in June and continued for nearly two months, usually with another period of production, lighter than the earlier one, in autumn. If the plant was kept watered during the summer, it usually would keep up some production from June until the first frost. Its hardiness to cold and drought, combined with a lack of coarseness, which is the principal

WHITE KNIGHT in our field photographed August 2, 1958.

We have this fine variety in good supply. Heavy, No. 1 grade plants that will please your customers.

Peace	Torch Song	Gold Cup
Pink Peace	Sunlight	Fusilier
Mojave	New Yorker	Circus
Aztec	Mirandy	Spartan

Fine-quality rose plants. Bare-root or packaged.
Write for complete list.

E. V. KIMBREW Wills Point, Tex.
Fine Roses Since 1919

MAGNOLIAS
Healthy plants—grown in the open.

	Each
12 to 14 ins., gal. cans	60c
16 to 20 ins., gal. cans	65c
24 to 28 ins., gal. cans	75c
Liners, 2½-in. pots	14c
Liners, qt. cans	18c

Field plants, B&B, 2 to 5 ft., 70c per ft.

BIG RIVER NURSERY
Dundee, Miss.

VERHALEN NURSERY Company
SCOTTSVILLE, TEXAS • 12140 HARRY HINES BLVD. DALLAS, TEXAS
Your Profits Grow in Verhalen Plants

MORNING STAR NURSERY
Rives, Tennessee
Wholesale Growers
Evergreens, Trees
Deciduous Shrubs, Roses
Send us your want list

CHINESE CHESTNUT TREES
Hardy, well-grown, well-developed stock. Liners, 6 to 18 ins., 1 and 2-yr. Finished stock for retail, 2 ft. and up.
Prices on request.
GOLD CHESTNUT NURSERY
Cowen, W. Va.

ROSEBUSHES
Patented and Standard in
Good Assortment
Bare-Root—Packaged
Write for price list.
SOUTHWEST NURSERIES, INC.
P. O. Box 83 Tyler, Tex.
Phone: Ly 2-7466

AZALEAS

CONIFERS and BROAD-LEAVED EVERGREENS

Finished Stock and Potted Liners

Write for price list.

Send us your want list.

Fritschler's

NURSERY

4425 W. Lawn Dr.
Nashville 9, Tenn.

Hardy, Northern-Grown

DWARF MALLING ROOTSTOCK

E. M., IX, VII, II and Clark Dwarf

New Malling-Merton
No. 104, 106, 109, 111

Quince, A—St. Julien, A

Available in rooted layers and transplanted stock. Perfectly graded.

Send for our list.

V. KRAUS NURSERIES

Carlisle, Ont., Canada
Phone: Waterdown, MU 9-4022

FLORIDA-GROWN CITRUS

4-in. and 6-in. plastic pots.

Write for prices.

GOOCHLAND NURSERIES, INC.

Pembroke, Fla.

CHINESE CHESTNUT TREES

Seedlings only of the Peter Lui strain, 1-yr. whips and 2-yr. branched, mostly Nanking progeny. Also, properly stored weevil-free seed nuts. Our low costs of production permit low quantity prices. Inquiries invited.

LEELAND FARMS

Leesburg, Ga.

drawback to many inulas, also makes it a desirable landscape plant. Like most of its kind, the plant's main need is sunshine, though a rich soil and moisture during dry weather would help to make it more useful.

I should like to direct attention to the Caucasian, I. magnifica. I tested it at least twice (I now see it occasionally mentioned in European lists), but I do not remember what happened to it, though it might have been tender to cold. It is a stately thing, to six feet and perhaps more under high culture, with an incredible number of narrow-rayed, golden-yellow heads, blooming over a long season. As I remember it now, it deserves testing under the varying conditions of the country to ascertain its adaptability to our gardens. All inulas come readily from seeds, especially from fall sowing outdoors, and they may be divided with ease.

Anise Hyssop

While looking through some old correspondence lately, I came upon several exchanges of letters with the late Frank C. Pellett, who, like the writer, was intensely interested in the use of plants, especially those used by the Indians. The letters concerned anise hyssop, Agastache foeniculum (A. anethiodora), a native of the plains from Lake Superior westward and as far north as northern Manitoba, according to Gray's "Manual." One will look for it in vain in "Hortus." He had written me in the hope that I had plants of it under test or could get him plants or seeds. Inquiry among my correspondents in the plant's reported range did not reveal a single seed or plant, and it later developed that the plant seemed to have disappeared from the wild throughout its supposed range. However, Mr. Pellett later found plants growing naturally about 180 miles north of Winnepeg. The plant's absence from its former range may be the reason for its absence from "Hortus."

Anise hyssop is a tall (up to three or four feet, as I remember it now), bushy plant, clothed in fragrant, ovate leaves, which are smooth above and whitish downy beneath. It produces, from June until freezing weather, a myriad of small, purplish, labiate flowers.

As an inhabitant of the herb garden, the plant is likely to find its greatest use. The leaves make a pleasing tea, a trick which the early settlers learned from the aborigines, who also used it for seasoning and

BLUE SPRING NURSERY

3404 Blue Spring Rd., N. W.
Huntsville, Ala.

Wholesale Growers of:

EVERGREENS
FLOWERING SHRUBS
SHADE and FRUIT TREES
DOGWOODS

Bare Root — Balled and Burlapped or Packaged attractively by machine in modern sure-to-please foil bags, poly-lined.

Write for price list. Let us know if you need packaged, bare root or B&B.

LET US HELP YOU TO MORE PROFIT

Rhododendron
Kalmia
(Mountain Laurel)
Hemlock
(Canadian and Carolina)
Native Azaleas
Abies fraseri
Leucothoe catesbaei
Pieris floribunda
White Pine

Finished Nursery Stock
Collected Stock
Seedlings and Cutbacks

ANTHONY LAKE NURSERY INC.

Pinola, N. C.
Phone: REpublic 3-4542

AZALEAS

Broad-leaved Evergreens and a general line of quality ornamentals.

THE TANKARD NURSERIES
EXMORE, VA.

CUMBERLAND VALLEY NURSERIES, INC.

Wholesale Growers of Dependable Fruit and Flowering Trees

Write for latest price list.

313 N. Chancery St.
McMINNVILLE, TENN.

COCOS AUSTRALIS PALM SEED

600 lbs. of good, clean seed, **$1.50** per lb. F.O.B. our nursery. Not less than 5 lbs.

MALBIS NURSERIES
Daphne, Ala.
12 miles east of Mobile on U. S. Highway 90.

Wholesale Growers of Broad-Leaved and Coniferous Evergreens

Ask for trade list.

LINDLEY NURSERIES, INC.

P. O. Box H Greensboro, N. C.

CRAB APPLES FOR AMERICA, by Donald Wyman. Breeding, propagation, culture, sources of supply. 63 p. **$2.00.**
American Nurseryman Chicago 4, Ill.

America's Finest ROSES
Contract Growing Invited
Leading Patented and Popular Varieties
Grown in our nurseries at Tyler, Texas, and Phoenix, Arizona
Write for Variety List
CARL SHAMBURGER NURSERY
P. O. Box 458 Tyler, Texas

HUMPHREYS LANDSCAPE SERVICE
225 Holt Ave. Mt. Sterling, Ky. Phone: 547
HEMLOCK PFITZER JUNIPER HETZ JUNIPER TAXUS
Now contracting for delivery fall, 1959, on frame transplants. Weigela Eva Rathke and vaniceki, Philadelphus aureus, Deutzia gracilis, alba, rosea and lemoinei.
Potted liners of Taxus and Juniper the year around

as a medicine for colds. However, I cannot do better in this respect than to quote from a clipping which I found with the letters, apparently from a magazine of 30 years or more ago. "All of the qualities of this plant," it read, "were recognized by H. H. Terry, a pioneer horticulturist and beekeeper in Iowa in the 1870's, but for some reason his favorable estimate of the plant has been overlooked until recently. Way back, then, Mr. Terry regarded it as worthy of a place in any garden." I might add that Mr. Pellett thought it was one of the best honey plants.

CONARD-PYLE OFFICERS

Sidney B. Hutton, president of the Conard-Pyle Co., West Grove, Pa., rose growers and nurserymen, announces that John Lemon, Kennett Square, and Thomas M. Yerkes, Marshalltown, have been named directors of the company and will also serve as vice-president and secretary, respectively. As the firm's new secretary, Mr. Yerkes replaces George Ohlhus, West Grove, who was named a vice-president.

PURCHASE of Friedly Evergreens, a farm and nursery near Convoy, O., has been made by Mr. and Mrs. Daniel L. Friedly from his parents, Mr. and Mrs. Julius Friedly.

KRIEGER'S WHOLESALE NURSERY
P. O. Box 116, Bridgman, Mich. Phone: HOpkins 5-5522

RED RASPBERRIES

	100	1000
Latham, Trans.	$10.00	$80.00
1-yr., No. 1	8.00	65.00
Durham (Fall Bearing), Trans.	10.00	80.00
1-yr., No. 1	8.00	65.00
Indian Summer (Fall Bearing), Trans.	10.50	85.00
1-yr., No. 1	8.50	70.00

BLACK RASPBERRIES

	100	1000
Blackhawk (New), No. 1 tips	$10.00	$75.00
Cumberland, Logan, Morrison, Dundee, No. 1 tips	6.00	45.00

GRAPEVINES

	10	100	1000
Concord, 2-yr., No. 1	$2.00	$15.00	$100.00
Fredonia, 2-yr., No. 1	2.20	16.00	120.00
Van Buren, 2-yr., No. 1	2.40	18.00	.....

GOOSEBERRIES

	10	100
Houghton, 3-yr., heavy	$3.50	$30.00
2-yr., No. 1	2.50	20.00

RED RHUBARB

	10	100
Canada Red, No. 1 Div.	$4.00	$35.00
McDonald, No. 1 Div.	3.50	30.00

VICTORIA RHUBARB

	100	1000
1½ to 2 ins.	$10.00	$80.00
1 to 1½ ins.	7.50	60.00
¾ to 1 in.	6.00	45.00
½ to ¾ in.	4.50	30.00

ASPARAGUS

	100	1000
Washington, 3-yr., heavy	$4.50	$30.00
2-yr., No. 1	3.00	20.00
1-yr., No. 1	2.10	14.00

HORSERADISH

	10	100
Cuttings, 4 to 6 ins.	$1.00	$4.50
Whole Roots	1.50	7.50

BLUEBERRIES

	Each	10	100	1000
2-yr., 9 to 12 ins.	$0.40	$3.50	$32.50	$300.00
3-yr., 12 to 18 ins.	.55	5.00	47.50	450.00
4-yr., 18 to 24 ins. (Fruit Buds)	.75	7.00	67.50	650.00
5-yr., 24 to 36 ins. (Fruit Buds)	1.00	9.00	87.50	.....

Quantity prices upon request. All stock ready for immediate or future shipment.

PLANT PROPAGATION, by Mahlstede and Haber. Basic principles. New techniques of propagation. 413 p. (1957) $7.50
American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

CENTINELA CHAPTER

A meeting of the Centinela chapter of the California Association of Nurserymen, was called to order at 7:30 p. m. November 20, by President Reginald Whitney, Ladera Garden Shop, Torrance. After introductions of guests and members, George S. Schmidt, Frontier Nursery & Garden Supply, Redondo Beach, reported on the progress of the Christmas party and distributed tickets to the membership.

President Whitney then announced the appointment of Richard Oehlman, Ladera Garden Shop, Torrance, to the post of director for the international flower show. Further announcement revealed Mr. Oehlman's appointment as chairman of the C. A. N. dues committee and the appointment of Robert Warner, Manhattan Garden Supply, Manhattan Beach, as chairman of the "Plant California" committee.

The meeting was then turned over to vice-president and entertainment chairman, Keiji Yata, Yata's Nursery, Torrance, who introduced Ken Humphries, the speaker of the evening. A film on the breeding, training and racing of thoroughbred horses was then shown.

The trophy won at the international flower show in 1958 was given permanently to Eizo Etow, treasurer, Centinela chapter. This trophy will be displayed at Etow's 101 Nursery, Redondo Beach. The next meeting of the board of directors was scheduled for December 8.

Kenneth Terry, Sec'y.

SAN DIEGO CHAPTER PLAN

The group advertising committee of the San Diego chapter of the California Association of Nurserymen has decided to run its second advertisement January 18 and 23 and to join the state association's Can-Can Carnival of nursery values by means of another group advertisement in the spring of 1959, according to George James, a member of the committee. The committee met December 1 at the home of Mrs. R. C. Jensen, chairman. Nine of the 18 nurserymen who participated in the first advertisements November 2 and 7, 1958, attended the meeting. The third member of the committee is Craig Smith, San Diego chapter's treasurer.

Mr. James reported further that a bare-root feature is planned for the January promotion. A 2 cubic foot bag of mulch, any brand, will be offered free to the purchaser of three patented roses. The spring advertisement will follow the cue of the state's Can-Can Carnival of nursery values, and a donation of $10 a month from the 18 participants is planned for financing, since the original group fund will be used up in January. The advertisements measure 5x10 inches and run in the Sunday San Diego Union and the Friday Evening Tribune five days later. They are good through the second Sunday; that is, the offers in them are valid for nine days. The total cost is $360, or $20 each for the 18 participants.

Ada Perry, Sec'y.

LOS ANGELES CHAPTER

The November 26 meeting of the Los Angeles chapter, California Association of Nurserymen, was held at Eaton's Santa Anita restaurant, Arcadia. Seventy-five members and guests were present when President Harold Botts, Botts Nursery, Anaheim, called the meeting to order.

Seated at the head table were Neil Campbell, Better Gardens, San Marino, chapter board member; vice-president Chuck Vogels, Chuck's Nursery, Covina, and Mrs. Vogels; President and Mrs. Botts, and C. A. N. president James Perry, Perry's Plants, Montebello, and Mrs. Perry.

Guests included Mr. and Mrs. Peter Mordigan, Evergreen Nurs-

Elmer Roses

Introducer of the world-famous

CARROUSEL

Grandiflora Rose

Offer a complete line of top-quality rose plants for the 1959 season.

Miniature Tree Roses — 10-in. Standards

Miniature trees, with miniature roses budded to a sturdy 10-in. cane. Excellent for potting for gift items. Beautiful patio item when potted in wooden containers.

Baby Gold Star, the only true yellow.
Bit of Sunshine (P.A.F.), brilliant yellow.
Little Buckaroo (P.A.F.), bright red—little larger than most miniatures.
Oakington Ruby, very double—bright red.
Pink Joy (Plant Patent No. 1378), a lovely small pink.
Red Imp (Plant Patent No. 1032), deep crimson, very double.
Sweet Fairy (Plant Patent No. 748), deep pink opening to appleblossom-pink—fragrant.
Dian (P.A.F.), deep pink.

WRITE TODAY for Descriptive Catalog

ELMER ROSES of California
6708 N. San Gabriel Blvd.
San Gabriel, Calif.

RHODODENDRON AND EVERGREEN LINERS
In Season
J. B. WHALLEY
Rt. 2, Box 683 TROUTDALE, ORE.

The MALLING-MERTON STORY
The story of the Malling Apple rootstocks from IX to XVI and their successors, the M. M.'s 104, 106, 109, 111 and M.XXV. Performance figures, etc.
Free for the asking.
CHICK-A-DEE GARDENS NURSERY
Sherwood, Ore.

ROSE-Y NEW YEAR GREETINGS

The midnight bells we hear,
Old '58 is through,
Proclaiming another happy year
Serving more and more of you.

In our records of this year
New nursery names appear.

Ring in the baby New Year
Ours and yours to shape and mold into
Success—the promised prize of
Everyone who tries—
Since time began, we're told.

WEEKS WHOLESALE ROSE GROWER

O. L. WEEKS 926 W. ELY ONTARIO, CALIF.

eries, San Fernando; Mrs. Deigaard, Deigaard Nurseries, Monrovia; Dean Lowry, new retail sales manager, Deigaard Nurseries, and his wife; Mr. and Mrs. Bergen, H. D. Bergen Nursery, Brea; new members of the chapter; Ken Carter, Sierra Growers, Sierra Madre, and Peter Stephens, Semmes Nurseries, Inc., Semmes, Ala.

Mrs. Florence Plummer, Robertson Floral Supply, Fullerton, displayed many Christmas ornaments and decorated Christmas wrappings that could be effective in increasing nursery sales during the month of December.

Peter Mordigan disclosed that the Southern California nursery institute will be held January 27 at the University of California, Los Angeles. Announcement was also made of the high school horticulture contest scheduled for December 6 at Pierce junior college.

Introduced as the speaker of the evening was Mr. Campbell, who has traveled through Europe five times and who, with his wife, now organizes tours featuring horticulture interests. His lecture, illustrated with color slides of flowers and gardens during peak blooming season, proved an enjoyable feature.

Richard Meadows, Sec'y.

A. McGILL & SON
FAIRVIEW, ORE.
Wholesale only
FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES
Constant Vigilance Results in Quality Stock
Combination carloads to eastern distributing points.
Write for our List.
Eastern Representative:
Frank C. Donovan
130 E. 233rd St.
Euclid 23, O.

We pay shipping costs on lining-out stock to all points in the United States, Canada and Alaska. No packing charge is made on either lining-out or balled stock.
SHERWOOD NURSERY CO.
EVERGREENS - Propagators & Growers
Wholesale Only
CORBETT, ORE.

Write for List Today
H & S Personality Roses
Bred for American Gardens
HOWARD & SMITH, INC.
Montebello, Calif.

FINEST QUALITY
LINERS
AZALEAS—HOLLIES
RHODODENDRONS—ROSES
DESCANSO DISTRIBUTORS, INC.
Wholesale Growers
12492 Pipeline Ave. Chino, Calif.

ORNAMENTAL WOODY PLANTS AND ROSES
Write for our lists.
W. B. CLARKE & CO.
P. O. Box 343 SAN JOSE, CALIF.

SEEDS
Collectors of Tree, Shrub and Wild Flower Seeds
Crude Drugs and Ornamentals
E. C. MORAN, Stanford, Mont.

PORTLAND WHOLESALE NURSERY CO.
5050 S. E. STARK ST. Avery H. Steinmetz Paul E. Van Allen PORTLAND 15, OREGON
Quality Stock
CONIFERS AND BROAD-LEAVED EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES
DWARF APPLE UNDERSTOCK
East Malling VII
East Malling II
East Malling I
Write for Quotations
Write for our Catalog

LINING-OUT STOCK
Conifers — Broad-leaved Evergreens — Holly — Daphne — Andromeda — Rhododendrons — Camellias — Fruit, Shade and Flowering Trees. *Write for special list.*
BENEDICT NURSERY CO.
735 N. E. 87th Ave. Portland 16, Ore.
We will grow on contract

YELLOW TREE PEONIES
1-yr., each, $2.45; per 10, each, $2.20; per 100, each, $1.95.
Delivery in November.
LAKE SAMMAMISH EVERGEEN NURSERY
6127 Highway 99, S.
Everett, Wash.

NORWAY MAPLE
2-yr.-old lining-out stock.

	Per 100	Per 1000
9 to 12 ins.	$ 5.00	$ 40.00
12 to 18 ins.	6.00	50.00
18 to 24 ins.	7.00	60.00
2 to 3 ft.	8.00	70.00
3 to 4 ft.	11.00	100.00
4 to 5 ft.	18.00	175.00

Limited Quantity
Special price on 5000 rate.
SANDY NURSERY
Rt. 1, Box 1162 Sandy, Ore.

QUALITY LINERS
Write for our catalog listing over 450 varieties.
MITSCH NURSERY
Aurora, Ore.

OREGON HOLLIES
Skimmia japonica
General Nursery Stock
May we quote you?
ALFRED TEUFEL
Wholesale Grower
11414 N.W. Cornell Rd.
Portland, Ore.

MAHONIA!
Jack Mayhan is an authority on mountain-grown Dwarf Mahonia. This is a new variety selection. Layers all alike. $10.00 per 100. See Classified ad on page 80.
MAYHAN NURSERY
Veradale, Wash.

Steele's New • Enlarged • Revised
1958 Handbook of
PANSY CULTURE only **50c**
Steele's Pansy Gardens, Inc.
P. O. Box 4555
2715 S. E. 39th Ave. Portland 2, Ore.

CUTTING-GROWN
RHODODENDRON LINERS
Hardy and semihardy varieties. Quality only
VAN VEEN NURSERY
3127 S. E. 43rd Ave.
PORTLAND 6, ORE.

ROSES — Field Grown
Patented and Nonpatented.
Finest in roses since 1936.
Write for new list and prices. Contracts and advance orders solicited.
PACIFIC NORTHWEST ROSE NURSERY
P. O. Box 261 Gresham, Ore.

ADDED RETAIL REPORT

A slight fall gain in the bay area of California is reported by John McDonnell, McDonnell Nursery, Oakland, in the following letter received too late for publishing in the December 15 issue:

"Our sales for the first 10 months of 1958 were about 5 per cent better than in the previous year. The leading nurseries in the bay area had a 3 per cent increase over 1957 sales. Our increase was due to excellent weather. I am anticipating a 10 per cent increase in sales on our total volume of business for next spring.

"We are building a new, modern nursery at Walnut Creek, as we had to move from the location where we had been for 10 years.

"The 16 leading nurseries in the bay area meet twice a year with a certified public accountant and all the nurseries submit a financial statement without anyone's knowing the volume and expenses of the other. For the year 1957, eight of the new nurseries had operating incomes ranging up to 5 per cent, while the others showed operating losses ranging to 5 per cent.

GARDEN EDITOR HONORED

Mrs. Iva Newman, San Mateo Times garden editor, was honored recently when Norvell Gillespie, representing the Associated Bulb Growers of Holland, presented her with a plaque award "in recognition of outstanding service to the cause of home beauty." Mrs. Newman was the only Californian and one of just 26 United States and Canadian citizens to be selected for this honor by the Central Bloembollen Comite of Holland. Mrs. Newman is a nationally accredited instructor and judge in the National Council of State Garden Clubs' flower show schools, as well as a lecturer and writer on gardening.

NORTHWEST PEAR DECLINE

Some 500 growers attended the 73rd annual Oregon State Horticultural Society meeting November 20 and 21 at Corvallis, Ore., to hear a panel of leading horticulturists discuss the decline of pear trees in Washington and Oregon.

Dr. L. P. Batjer, United States Department of Agriculture experiment station, Wenatchee, Wash., said that the pear tree decline first appeared in 1950 in central Washington. The situation at the time was rather baffling, according to Dr. Batjer, and the experiment station staff was unable to explain why the

trees were losing vigor. They did not respond to care, and extensive research was undertaken by the State College of Washington, Pullman, to explore the possibility that some disease or insect was affecting the trees. A similar problem occurred in Oregon.

Research indicated that the decline occurred in the rootstock. However, experiments have failed to reveal any treatment that will rehabilitate the dying trees, Dr. Batjer reported. The grower must remove the damaged trees and reset new ones. He stated that this replacement has caused considerable loss in pear tonnage and that the loss in trees to Washington growers has amounted to approximately $1 million.

Oregon State College agricultural scientists and U. S. D. A. experiment station personnel in the state are conducting full-time research on the problem. A factor which may be responsible for the decline was brought out by Dr. R. C. Blake, U. S. D. A. horticulturist stationed at Medford, Ore., one of the centers of pear growing in the northwest.

Dr. Blake reported that a preliminary study of five orchards with a high number of declining trees showed that four out of the five had excessively high water tables. Injury to the roots of the trees could have resulted from the high water tables, he stated. He emphasized, however, that this is not conclusive proof, and that further work on the cause of the decline is necessary. H. W. H.

OREGON NOTES

A special meeting of the Oregon Bulb, Florist and Nursery Council was held in the bureau of nursery service office of the Oregon State department of agriculture at Portland recently. Presiding was Clifford Walker, Albany, bulb producer and president of the group. Principal business of the meeting was explained by Walter Upshaw, state official, who told the group that approval was sought for legislation that would expand existing statutes, giving more authority to the department of agriculture under the horticultural laws. The purpose, he explained, was to make it possible for the bureau to widen the scope of inspection and at the same time to make possible more rigid enforcement of recommendations. No action was taken by the council, although there was considerable discussion for and against the idea.

The Sunset chapter of the Oregon Association of Nurserymen held an

Whatever Your Needs
See Stribling's First!
Fruit and Nut Trees
Shade Trees
Flowering Trees
Grape Vines
Fig Trees
Ornamentals
---Field & Container Grown
By Express, Truck or Carload
Write for Our Free Wholesale Catalog
Stribling's NURSERIES
Highway 99 North P. O. Box 793 Merced, Calif. RAndolph 2-4106

ROSES
Grown in the Puente Valley are finest, bare-root, two-year-old plants available.
Wholesale only, but featuring a complete list of Hybrid Teas, Climbers and Floribundas, including all the A.A.R.S. Award Winners.
Send for our new 1957-58 catalog
MONTEBELLO ROSE CO.
401 N. Sixth St.
MONTEBELLO, CALIF.
Phone: PArkview 1-1721
Rose hanger in color, available on request.

MAHONIA AQUIFOLIUM
(Oregon-Washington Holly-Grape)
A very beautiful evergreen shrub with large glossy leaves and yellow flowers conspicuously appearing in the spring and followed by dark blue berries; a most satisfactory broad-leaved evergreen for any place in the United States.
1-yr., S., field-grown, row-run, $40.00 per 1000, $5.00 per 100
SEEDLINGS are muddled, then packed in moist shingle tow and wrapped 100 to the bundle in waterproof paper. They are then packed 1000 seedlings to the crate, weighing approximately 55 lbs.
TERMS—Check is requested before shipment or will ship C.O.D. if preferred. All orders shipped by railway express unless otherwise stated.
Place your order now for fall, 1958, or spring, 1959, delivery.
Chenoweth's
MOUNT VERNON NURSERY
Mount Vernon, Wash.
(All orders shipped same day they are dug.)

ROSES
OLD and NEW
Fine-quality, two-year plants budded on Multiflora in over 250 varieties.
MT. HOOD NURSERY
Rt. 2, Box 96
GRESHAM, ORE.

DOTY & DOERNER, Inc.
6691 S. W. CAPITOL HIGHWAY
PORTLAND 19, OREGON
WHOLESALE
GENERAL NURSERY STOCK

PACIFIC COAST NURSERY

Rt. 1, Box 114B, PORTLAND 10, ORE.

Phone: MAyfair 1-3325

Pioneering Seedling Growers on the Pacific Coast Since 1914

Specializing in Fruit Tree Seedlings also Shade and Flowering Trees

Domestic Apple Seedlings, Str. and Br.

Bartlett Pear Seedlings, Str. and Br.

French Pear Seedlings Str. and Br.

Mahaleb Cherry Seedlings

Mazzard Cherry Seedlings

Myrobalan Plum Seedlings

American Plum Seedlings

Angers Rooted Quince Cuttings

Combination carloads to eastern distributing points.

John Holmason & Sons

Props.

AVAILABLE IN BOOK FORM

Greenhouse Heating and Construction

Written by Professor Harold E. Gray, an expert in greenhouse heating and construction, this book presents in layman's language practical and up-to-date data needed by every greenhouse owner.

This valuable reprint from The Florists' Review contains 80 pages — includes 27 photographs and explanatory drawings.

Place Your Order Today

$1.50 per Copy

Here's Some of the Information It Contains:

Heating Principles • Determining the Heating Load and Piping Requirements • Piping Arrangements • Steam Installation Practices • Hot-Water Installation • Control Systems • Unit Heaters • Boilers for Heating • Boiler Operation • Range Layout • For Crop Production • Erection and Maintenance.

AMERICAN NURSERYMAN
343 S. Dearborn St., Chicago 4, Ill.

Enclosed is my remittance for.....

covering.....copies of GREENHOUSE HEATING AND CONSTRUCTION.

Name.....

Address.....

City and State.....

Jan de Graaff's

OREGON BULB FARMS
P. O. Box 512
GRESHAM, OREGON

Lilies

Daffodils

ROSES

Top-quality, field-grown patented and standard roses.

Write for list and prices.

MAYWOOD ROSE NURSERY

Rt. 2, Box 880 Roseburg, Ore.

Maurice C. Ravensberg

Boskoop, Holland

Reliable exporters for general nursery stock since 1922.

Catalog on application

interesting meeting at the Forest Hills Country Club, Cornelius, the evening of December 8. There were over 30 present. Roy Smith, Valley View Nursery, Portland, president, presided. Mrs. Charles Drew, Drew's Nursery, Beaverton, showed interesting slides on rare plants and world-famous gardens. James Doty, Doty & Doerner, Portland, told the group about the legends of Christmas. Several poinsettias were given as prizes.

The Rose City chapter of the O. A. N. held a business seession at the Portland Wholesale Nursery Co. December 8, with Robert Walker, Holgate Nursery, Portland, presiding. Carl Hasenkamp, accountant, spoke on "Small Business and Income Tax Problems."

According to R. B. Hile, agricultural statistician in charge of the United States Department of Agriculture agricultural marketing service, Portland, the U. S. D. A. will start a new survey of nursery products and cut flowers in Oregon, one of 10 states, shortly after the first of the year. Purpose of the survey will be to enable the industry to appraise trends within the state and at the same time give some indication of national trends based on a representative cross section of the industry. Eight classes of nursery products will be covered: Broad-leaved evergreens, coniferous evergreens, deciduous shade trees, deciduous shrubs, rose plants, deciduous fruit and nut trees, grapevines and citrus and subtropical fruit trees. Sales of these products by Oregon growers were placed at $3,500,000 in 1957.

District ranger William R. Taylor, Chetco district of the Siskiyou national forest has announced that the planting of 215,000 Douglas fir seedlings has begun on 380 acres of land in the area. The seedlings were grown in the forest service nursery at Wind River, Wash.

QUARANTINE 48 REVISION

The plant pest control division of the United States Department of Agriculture issued a revision of the Japanese bettle quarantine 48 that became effective December 8, 1958. Eliminated are aircraft disinsectization procedures. Changes in the list of items regulated make designations more specific. In addition, the amended instructions authorize the director of the plant pest control division to designate suppressive and generally infected areas and otherwise conform the regulations more closely to the pattern of other quarantines and regulations.

CONVENTION TIME

CONTACT 9800 NURSERYMEN AT THEIR BUYING TIME

You can reap big sales gains by presenting your advertising message to the nursery industry through prominent space in our February issues.

Here's why—

Many hundreds of nurserymen all over the country will be attending the winter meetings held in their area during the weeks ahead. They will go there with two major objectives — to exchange ideas on mutual nursery problems and to place orders for their spring requirements. Wholesale nurserymen and suppliers planning to have representation at these meetings should announce this to the trade through an advertisement in AMERICAN NURSERYMAN, so that nurserymen will know they can contact these representatives at that time. Those firms which will not be able to have representation at the meetings should also be prominently represented on the AMERICAN NURSERYMAN'S advertising pages so their products and stock offerings will not be overlooked when these trade buyers are placing their spring orders.

TIMING PERFECT

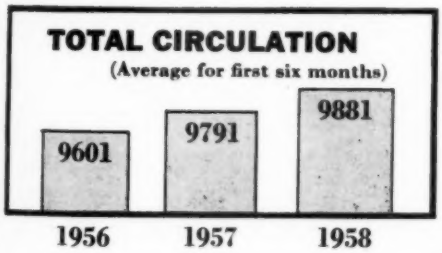
The February 1 and February 15 issues reach the trade at the key period in the buying cycle. The placing of orders by nurserymen for spring delivery will be at its peak by this time. Growers will have made their plans for spring planting . . . retailers will have mapped out the quantities of plant material and resale items they want to stock for the coming season. With their needs known, they will be making actual purchase commitments — not just sending you inquiries. This is the time to strike out hard for the trade's business!

Supply firms and manufacturers of equipment essential to nursery operations will find use of large space in the February issues will focus readers' attention on their wares and start their year's selling program off with a bang. Growers of nursery crops will find inclusion of price lists very productive at this time—and, if copy reaches us a week before the closing date, reprints of the lists can be provided promptly for the advertiser to distribute at the conventions and use as a mailing piece. Growers who do not wish to publish price lists should run a large institutional-type advertisement, pointing out special varieties they grow, special services they provide, the quality of their stock, etc.; such ads build prestige for the firm and help retain buyer loyalty.

HIGH READER INTEREST

Listed in this issue are nurserymen's meetings being held during February. To tell your sales story to our readers *before* they attend these meetings, you will want to have your special ad in the issues preceding the date of the meeting. But you can also profit by prominent representation in the issues which follow, for these will carry reports of the meetings and will be especially of interest to those who were unable to attend. Those who did attend will be reading these later issues, too, in order to see what was accomplished by other state nurserymen's groups.

Your well-timed sales presentation through display space in AMERICAN NURSERYMAN can bring you a sizable share of the orders which will be placed by our nearly 10,000 readers when the spring buying season gets under way.



Circulation of the AMERICAN NURSERYMAN continues to climb, providing many additional prospects for advertisers each year. As 1958 drew to a close, the circulation figure was approaching 10,000—all bona fide members of the nursery industry with PAID subscriptions to the magazine. Because the magazine's circulation is *screened*, permitting only actual members of the nursery trade to subscribe, advertisers are assured that the increase in circulation actually represents an increase in readership by *legitimate trade members*. And the fact that subscribers all *pay* to receive the magazine shows that their interest in its contents is genuine.

NOTE THESE CLOSING DATES

FEBRUARY 1 isssue closes JANUARY 9
FEBRUARY 15 issue closes JANUARY 23
MARCH 1 issue closes FEBRUARY 6
MARCH 15 issue closes FEBRUARY 20

MAIL YOUR COPY NOW!

AMERICAN NURSERYMAN
343 S. Dearborn St.
Chicago 4, Ill.

CLASSIFIED ADS

Rate: 40 cents per line, each insertion. **Minimum order, $4.00.**

Instructions for the February 1 issue must be received by Friday, January 9.

Forms for February 15 issue will close Friday, January 23.

AZALEAS

AZALEAS
CASH AND CARRY ONLY, NO DELIVERY.
OVER 100,000,
SIZES RANGING FROM 4 ins. to 8 ft.
(Not all sizes in all varieties.)
Lath house and field-grown.
INDICA
FORMOSA — DUC DE ROHAN
OMURASAKI — SOUTHERN CHARM
GEO. L. TABER
KURUME
SNOW — PINK PEARL
HINODEGIRI — CORAL BELLS
CHRISTMAS CHEER — HINO-CRIMSON
PERICAT
SWEETHEART — TWENTY GRAND
SUPREME — FORTUNE
MME. PERICAT
KURUME, 4 to 6 ins., 35c; 6 to 8 ins., 75c; 8 to 10 ins., 90c; 10 to 12 ins., $1.15.
DELHAVEN GARDENS AND NURSERY
Route 1 — Bayside, Va.
5 miles east of Norfolk, Va.
Tel. HOward 4-0861. Nights MAdison 5-8180.

AZALEAS

	Per 100 (EACH)	Per 1000 (EACH)
Fedora, 3-yr., TT	$1.00	....
Hino-Crimson (fiery red), 3-yr., TT, from beds	1.00	....
Kaempferi (seedlgs.), 4-yr., TT.	.75	....
*Mollis (orange-red) (very hardy strain), 4-yr., T, from beds .	.50	$0.45
*Mollis (yellow) (very hardy strain), 4-yr., T, from beds .	.60	.45
Sherwood Red, 3-yr., T, from beds	1.00	.90

*ITEMS SUITABLE FOR MAIL ORDER TRADE AND CANNING.
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd., Newport, R. I.

AZALEAS
Our plants are grown in the open field, single rows, sheared and compact.

	100 rate
6 to 8 ins., B&B	$0.75
8 to 10 ins., B&B	.90
10 to 12 ins., B&B	1.15
12 to 15 ins., B&B	1.40
15 to 18 ins., B&B	1.90

Hinodegiri, in quantity, smaller lots of Snow, Coral Bells, sherwoodi, indica alba and Glenn Dale.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 — Milford, Del.

MAIL YOUR ORDER NOW FOR
rooted cuttings of kurumes and Pericats.
$7.50 per 100, $60.00 per 1000.
Immediate delivery.
Budded hardy kurumes, Pericats and indicas, for forcing or outdoor planting.
Lining-out stock of Ilex bullata, Taxus, capitata, cuspidata and hicksi.
ASK FOR COMPLETE LIST.
DIRKMAAT AZALEA FARM
516 Stevens Ave., P. O. Box 453,
Ridgewood, N. J.

AZALEA LINERS
NOW BOOKING ORDERS.
SPRING, 1959,
POT-GROWN
OR
FLAT-GROWN.
WRITE FOR LIST.
$14.00 per 100, $125.00 per 1000.
DELAWARE VALLEY NURSERY
948 N. Broad St. — Elizabeth 3, N. J.

HINO-CRIMSON, GLENN DALES, ETC.
Thousands of beautiful specimen kurume and other evergreen Azaleas. Dense, bushy, well-budded for forcing and landscape planting. Order now to be sure of getting your requirements. Prices reduced. Larger landscape size. Send for list.
TANKARD NURSERIES, Exmore, Va.

KURUME AZALEAS
6 to 8 ins. to 12 to 15 ins.
QUALITY STOCK FOR
florist and landscape trade.
Write for price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

AZALEAS FOR FORCING
AND LANDSCAPE PLANTING
Write for list of varieties, sizes and prices.
LEVICK NURSERY CO.
R. D. 3 — Bridgeton, N. J.

BARBERRIES

RED-LEAVED BARBERRY
(Atropurpurea) 2-yr. seedlings.

	Per 100	Per 1000
Lining-out	$ 4.50	$ 40.00
6 to 9 ins., branched	6.00	50.00
9 to 12 ins., branched	9.00	80.00
12 to 18 ins., branched	12.00	110.00
18 to 24 ins., branched	32.00	280.00

RED-LEAVED BARBERRY
(Atropurpurea) 4-yr. transplants.
Heavy stock.

9 to 12 ins.	$24.00	$200.00
12 to 18 ins.	28.00	240.00
18 to 24 ins.	32.00	280.00
2 to 2½ ft.	36.00	320.00

Our Red Barberry is one of the finest strains in the U.S.A.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 — Milford, Del.

RED BARBERRY

	Per 100	Per 1000
1-yr. seedlings, 6 to 10 ins., special permit	$5.00	$40.00

Special quotations on larger quantities.
HESS' NURSERIES
P. O. Box 128 — Wayne, N. J.

RED-LEAVED BARBERRY
2-yr. seedlings.
Write for price quotations.
PAUL J. SQUARE
120 Fairport Nursery Rd.
Painesville, O.

Barberry liners, Crimson Pigmy, julianae, julianae nana, mentorensis.
Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

BEGONIAS

TUBEROUS-ROOTED BEGONIAS
Large double Camellia type. 8 colors.

	Per 100	Per 1000
EXHIBITION size, 2½-in. up	$16.00	$150.00
2 to 2½-in.	14.00	130.00
1½ to 2-in.	9.00	80.00
1¼ to 1½-in.	6.00	50.00
DOUBLE FIMBRIATA (Carnation type), 6 colors		
DOUBLE Bicolor, yellow mixed with copper and white		
DOUBLE Camellia, red with white edge		
DOUBLE marmorata, white with red edge		
DOUBLE Rosebud, salmon-rose		
TOP size	$15.00	$140.00
FIRST size	11.00	100.00
PENDULA (Hanging Basket type), 6 colors		
TOP size	$16.00	$150.00
First size	11.00	100.00
MULTIFLORAS, scarlet, yellow, apricot, copper		
MULTIFLORA maxima (NEW), 6 colors		
TOP size	$15.00	$140.00
First size	11.00	100.00

Minimum order $10.00.
VERONA GARDENS, TED GREVERS
Route 5 — Battle Creek, Mich.

BERRY PLANTS

BERRY PLANTS

	No. 1 suckers Per 1000	¼-in. cal. up Per 1000
RED RASPBERRY		
Latham, Taylor, Durham	$55.00	$65.00
Indian Summer, Milton	60.00	70.00
September, Canby	70.00	80.00
		Per 1000
BLACK RASPBERRY		
Cumberland, Bristol, No. 1 tips		$ 45.00
PURPLE RASPBERRY		
Sodus, No. 1 tips		50.00
Burgundy (patent No. 1567). No. 1 tips		100.00
BLACKBERRIES		
Bailey, Hedrick, Ebony King, No. 1 rooted cuttings		100.00
Early Harvest, Eldorado, No. 1 rooted cuttings		40.00

Send for complete list of bush fruits and flowering shrubs.
CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

Certified Raspberry canes. No. 1 grade: Newburgh and Viking, $50.00 per 1000; 10,000, $45.00 per 1000; 20,000, $40.00 per 1000. Packing free. W. H. Perron & Co., Ltd., 515 Labelle Blvd., L'Abord a Plouffe (Montreal 9), P. Q.

NEW MIDNITE BLACKBERRY
Introduced fall 1957. Fine, large berry, heavy fruiting.
Send for complete descriptive circular.

	Per 100	Per 1000
1-yr., No. 1 plants	$12.50	$100.00
2-yr., No. 1 plants	17.50	150.00

LOWDEN, another Blackberry of Eldorado type, from Canada.

1-yr., No. 1 plants	$ 9.50	$ 85.00
2-yr., No. 1 plants	12.00	100.00

SCARFF'S NURSERY, INC.
New Carlisle, O.

RASPBERRIES

	Per 100	Per 1000
September, 3/16 to ¼-in.	$ 7.00	$62.50
¼-in. up	9.00	70.00
transplants	11.50	90.00
Indian Summer, No. 1	9.00	70.00
Rhubarb Canada Red, 300 divs.	25.00	225.00

Free packing. Cash, please.
WHEELOCK WILSON NURSERY
Marshalltown, Ia.

Strawberry plants, Senator Dunlap, Robinson, Premier and Gem, all plants fresh dug. Satisfaction guaranteed. Write for prices. Free packing. 5 per cent discount for cash with order. Over 50 years growing and selling the kind of plants that please.
Lake View Fruit Farm, R. 5, Coldwater, Mich.

Blueberries, red Raspberries, black Raspberries, Grapevines, Rhubarb, Asparagus, Horseradish and Gooseberries. Refer to our priced ad on page 77.
Krieger's Wholesale Nursery, Bridgman, Mich.

Strawberry and Raspberry plants, true to name. All varieties of everbearing and one crop. Healthy, sturdy plants, grown under irrigation. Write for wholesale prices.
McNeal Berry Nursery, Hamilton, Mont.

BULBS AND TUBERS

TUBEROUS BEGONIAS.
Giant double-flowering (Camellia type), 8 colors.

	Per 100	Per 1000
1¼ to 1½-in.	$ 6.00	$ 49.00
1½ to 2-in.	9.50	83.00
2 to 2½-in.	14.00	130.00
Mammoth, 2½-in. up	25.00	200.00

Double-flowering Fimbriata (Carnation type), 6 colors.

1¼ to 1½-in.	$ 7.50	$ 65.00
1½ to 2-in.	11.50	100.00
2-in. up	15.00	140.00

Picotee (true Camellia type), two-toned, rose and white.

1½ to 2-in.	$13.50	$125.00

Pendula (Hanging Basket type), 5 colors, reds, salmon, yellow.

1½ to 2-in.	$13.50	$125.00

Multiflora hybrids (Lilliput or miniature), reds, salmon, yellow.

1¼-in. and up	$13.50	$125.00

Minimum order $5.00 of a type.
GLOXINIAS.
The best leading commercial varieties.

	Per 100	Per 1000
1¼ to 1½-in.	$ 7.50	$ 65.00
1½ to 2-in.	14.00	130.00
2 to 2½-in.	22.00	200.00
Mammoth, 2½-in. up	30.00	275.00

Minimum order $5.00 of a size.
FANCY-LEAVED CALADIUMS
The finest new commercial named varieties. Over 75 varieties, regular and lance-leaved. Absolutely free from disease. Send for color chart with cultural directions.

	Per 100	Per 1000
No. 3, ¾ to 1-in.	$ 7.00	$ 60.00
No. 2, 1 to 1½-in.	12.00	100.00
No. 1, 1½ to 2½-in.	18.00	160.00
Jumbo, 2½ to 3½-in.	25.00	230.00
Mammoth, 3½-in. up	37.00	350.00

Minimum order $5.00 of a size.
If parcel post shipments requested, include charges.
LOUIS DANK
1170 Broadway — New York 1, N. Y.

FINAL CLEARANCE, IMPORTED BULBS
TULIPS, MIXED, BY NAME OR BY COLOR
11 to 12 cm., $3.00 per 100, $25.00 per 1000.
12 cm. up, $4.00 per 100, $35.00 per 1000.
NARCISSI and DAFFODILS, named or mixed.
Extra rounds, $4.00 per 100, $35.00 per 1000.
CROCUS BULBS, MIXED OR BY COLOR
7 to 8 cm., $10.00 per 1000.
Many other items in stock. Write for list.
GROWERS EXCHANGE
Farmington 8, Mich.

XUM

GLOXINIAS, BELGIAN-GROWN

Named varieties or mixed	100	1000
1½ to 2-in.	$13.50	$125.00
2 to 2½-in.	20.00	190.00

GROWERS EXCHANGE
Farmington 8, Mich.

BUXUS

Buxus sempervirens (Boxwood), good rooted plants in open field beds, $6.00 per 100, $50.00 per 1000.
Mountville Nurseries, Mountville, Ga.

CAMELLIAS

CAMELLIA LINERS

More than 50 varieties of Camellias and Sasanqua liners available, in pots, grown in sterilized soil.

ALSO

container-grown grafts.
Send for our complete listing on these and other fine liners and container-grown stock.

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

CHRYSANTHEMUMS

HARDY CHRYSANTHEMUMS.
We are growing 75 varieties of Chrysanthemums in the open field. Over 100,000 field-grown clumps available, at $12.00 per 100, $100.00 per 1000.
WALTER GARDENS
R. R. 2. Zeeland, Mich.

DISH GARDEN PLANTS

VARIEGATED PITTOSPORUM
Just the right size and colorful for your dish gardens.
2¼-in. plastic pots, $15.00 per 100.
FREE PACKING.
COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

DOGWOODS

CORNUS FLORIDA RUBRA (1-YR.)
(RED-FLOWERING DOGWOOD)

	Each, 10	100	1000
6 to 12 ins., bare-root	$0.45	$0.40	....
12 to 18 ins., bare-root	.55	.50	....
18 to 24 ins., bare-root	.80	.75	$0.65
24 to 30 ins., bare-root	1.00	.90	.85
WHITE DOGWOOD, liners, 6 to 12 ins.		4.00	30.00

RED-FLOWERING DOGWOOD
Dormant buds, budded August, 1958.
$20.00 per 100, $175.00 per 1000.
2-YR. CORNUS FLORIDA RUBRA

	Each, 10	100	1000
3 to 4 ft., bare-root	$2.00	$1.75	....
4 to 5 ft., bare-root	2.50	2.25	....

2-YR. CORNUS FLORIDA, WHITE

18 to 24 ins., bare-root	$0.30	$0.25	$0.20
2 to 3 ft.	.50	.45	.40
3 to 4 ft.	1.10	1.00	...

CHOCOLA NURSERY
Winchester, Tenn.

DOGWOOD

	Per 100	Per 1000
Cornus florida		
30,000 1-yr., s, 8 to 12 ins.	$ 4.50	$ 35.00
understock	5.00	45.00
20,000 2-yr., s, 12 to 18 ins.	6.50	60.00
20,000 2-yr., s, 18 to 24 ins.	9.00	85.00
20,000 2-yr., s, 24 to 36 ins.	14.00	130.00
4½ to 5 ft., B&B	275.00	....
5 to 6 ft., B&B	325.00	....
Cornus florida rubra		
3½ to 4 ft., B&B	250.00	....
4½ to 5 ft., B&B	325.00	....

PETER BROUWER'S NURSERIES
24 Lester St. New London, Conn.

EVERGREENS, Liners

Evergreen seedlings. Scotch Pine 100 1000
French, German, Austrian Hill, Spanish.

4-yr., 12 to 20 ins., French only	$4.50	$30.00
3-yr., 6 to 14 ins., no Spanish	3.50	25.00
2-yr., 3 to 6 ins., all above	3.00	20.00
Colo. Blue Spruce, 5-yr., 8 to 14 ins.	4.00	35.00
3-yr., 5 to 8 ins.	3.50	30.00
3-yr., 3 to 5 ins.	2.50	20.00
Mugho Pine, 4-yr., 4 to 9 ins.	4.00	35.00

Novak's Nursery, Houtzdale, Pa.

3-YR., ROOT-PRUNED EVERGREENS

	Per 100	Per 1000
Concolor Fir, 6 to 8 ins.	$ 8.00	$50.00
Concolor Fir, 4 to 6 ins.	6.00	40.00
Colo. Douglas Fir, 5 to 8 ins.	10.00	60.00
Colo. Douglas Fir, 3 to 5 ins.	8.00	50.00
Scotch Pine, 12 to 18 ins.	10.00	60.00

WESTERN EVERGREENS
Route 1 Golden, Colo.

UNROOTED CUTTINGS, 6 TO 10 INS.
Junipers, Pfitzer and Andorra.
Pyracanthas, lalandi and small red berry.
$10.00 per 1000. Cash with order.
Shipped express collect.
Write for list of container-grown plants.
J. C. CARDEN NURSERY
3405 Albert Pike Fort Smith, Ark.

EVERGREEN LINERS AND CUTTINGS
POT-GROWN STOCK

	Each, 100	1000
Stock from 2½-in. pots		
Arborvitae pyramidalis, 1-yr., 6 to 7 ins.	$0.26	$0.24
Arborvitae pyramidalis, 2-yr., 7 to 9 ins.	.30	.28
Juniperus, Armstrongs, 2-yr., 7 to 9 ins.	.30	.28
Juniperus glauca hetzi, 1-yr., 6 to 7 ins.	.26	.28
Juniperus glauca hetzi, 2-yr., 7 to 9 ins.	.30	.28
Taxus hatfieldi, 2-yr., 5 to 6 ins.	.30	.28
Taxus intermedia, 2-yr., 7 to 9 ins.	.30	.28
Taxus columnaris, Adams', 2-yr., 5 to 6 ins.	.30	.28
Taxus hicksi, 2-yr., 6 to 8 ins.	.30	.28
Taxus andersoni, 2-yr., 6 to 8 ins.	.30	.28
Taxus cuspidata, 2-yr., 6 to 8 ins.	.30	.28
Taxus media, 2-yr., 6 to 8 ins.	.30	.28
Euonymus alatus compactus, 2-yr.	.22	.20
Boxwood, Korean, 2-yr., 3 to 4 ins.	.22	.20
Buxus sempervirens, 2-yr., 4 to 5 ins.	.22	.20

HEAVY ROOTED CUTTINGS
From flats, growing outside in lath house.

Boxwood, Korean, hardy, 3 ins.	$0.09	$0.08
Boxwood, sempervirens, 3 ins.	.09	.08
Juniperus glauca hetzi, 6 ins.	.13	.12
Arborvitae elegantissima	.18	.12
Taxus hicksi, 5 to 6 ins., ready	.13	.12
Taxus intermedia, 5 to 6 ins., ready	.13	.12
Taxus cuspidata, 5 to 6 ins., ready	.13	.12
Taxus andersoni, 5 to 6 ins., ready	.13	.12
Taxus media, 5 to 6 ins., ready	.13	.12
Taxus hatfieldi, 4 to 6 ins.	.13	.12
Taxus browni, 4 to 6 ins.	.13	.12
Taxus capitata fastigiata, 4 ins.	.13	.12
Euonymus erectus, 4 to 5 ins.	.09	.08
Euonymus alatus compactus, 5 to 6 ins.	.09	.08

TERMS: Packing and boxing free. 3 per cent discount for cash with order.
250 plants of each variety at 1000 rate.
MIAMI NURSERY CO.
Tipp City, O.

EVERGREENS

ROOTED CUTTINGS	Per 100	Per 1000
Arborvitae woodwardi	$0.09	$0.08
Arborvitae pyramidalis, 6 to 8 ins.	.10	.09
Juniperus pfitzeri, 6 to 8 ins.	.11	.10
Juniperus hetzi, 6 to 8 ins.	.11	.10
Juniper, Andorra, 6 to 8 ins.	.11	.10
Juniper, Swedish, 6 to 8 ins.	.11	.10
Taxus cuspidata, 6 to 8 ins.	.09	.08
Taxus capitata (leaders), 6 to 8 ins.	.14	.12
Taxus hicksi, 6 to 8 ins.	.09	.08
Taxus browni 1-YR.	.13	.12
Arborvitae woodwardi	.17	.16
Arborvitae pyramidalis	.17	.16
Taxus cuspidata	.20	.18
Taxus hicksi 2-YR.	.20	.18
Arborvitae woodwardi, 8 to 10 ins.	.25	.23
Arborvitae pyramidalis, 10 to 12 ins.	.27	.25
Taxus cuspidata, 8 to 10 ins.	.30	.28
Taxus hicksi, 8 to 10 ins.	.30	.28
Juniperus hetzi, 8 to 10 ins.	.30	.28
Euonymus alatus, 12 to 15 ins.	.30	..

GRAFTED SPRUCE, $1.25 each.
Koster Blue Spruce Moerheim Blue Spruce

GRAFTED JUNIPERS	Per 10	Per 100
Juniperus canaerti	$0.55	$0.50
Juniperus burki	.55	.50
Juniper, Dundee	.55	.50
Juniperus keteleeri	.55	.50

50 of a variety at 100 rate. 300 of a variety at 1000 rate. Write for quotations on lots of 2500 or more.
DRAKE'S NURSERIES
G-4342 Branch Rd.
Flint 6, Mich.

TAXUS CAPITATA SEEDLINGS

	Per 100	Per 1000
2-yr., 3 to 6 ins.	$10.00	$ 80.00
3-yr., 6 to 12 ins.	16.00	120.00

POTTED LINERS
2¼-in. rose pots.

	Per 100	Per 1000
Taxus media Adams		
2-yr., 6 to 10 ins.	$24.00	$220.00
Taxus media andersoni		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 12 ins.	24.00	220.00
Taxus media browni		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 10 ins.	25.00	230.00
Taxus cuspidata		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 12 ins.	24.00	220.00
Taxus cusp. capitata, sdlg.-grown		
3-yr., 4 to 8 ins.	27.50	250.00
Taxus Halloran		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 10 ins.	25.00	230.00
Taxus media hatfieldi		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 10 ins.	25.00	230.00
Taxus media hatfieldi No. 18		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 10 ins.	25.00	230.00
Taxus media hatfieldi No. 24		
2-yr., 6 to 10 ins.	25.00	.....

(Continued from previous column)

(Continued in next column)

Taxus media hicksi		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 12 ins.	24.00	220.00
Taxus media hunnewelliana		
1-yr., 4 to 6 ins.	20.00	180.00
Taxus intermedia		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 12 ins.	24.00	220.00
Taxus media kelseyi		
1-yr., 4 to 6 ins.	20.00	180.00
Taxus media Moon's columnaris		
1-yr., 4 to 6 ins.	20.00	180.00
Taxus media thayerae		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 12 ins.	24.00	220.00
Taxus cusp. vermeuleni		
1-yr., 4 to 8 ins.	20.00	180.00
Taxus media wardi		
1-yr., 4 to 6 ins.	22.50	200.00
Taxus media wellesleyana		
1-yr., 4 to 6 ins.	20.00	180.00
Taxus media wymani		
1-yr., 4 to 6 ins.	22.50	200.00
Juniperus horizontalis plumosa		
1-yr., 4 to 6 ins.	20.00	180.00
Juniperus communis depressa aurea		
1-yr., 6 to 10 ins.	20.00	180.00
Juniperus glauca hetzi		
1-yr., 4 to 6 ins.	20.00	180.00
Juniperus chin. Nelson		
1-yr., 4 to 6 ins.	22.50	200.00
Juniperus chin. pfitzeriana		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 10 ins.	24.00	220.00
Thuja occ. Douglas Golden		
1-yr., 4 to 6 ins.	20.00	.....
Thuja occ. elegantissima		
1-yr., 4 to 6 ins.	20.00	180.00
Thuja occ. hetzi Winter Green		
1-yr., 4 to 6 ins.	20.00	180.00
Thuja occ. pyramidalis		
1-yr., 4 to 6 ins.	20.00	180.00
Thuja occ. woodwardi		
1-yr., 4 to 6 ins.	20.00	180.00

FIELD LINERS

Taxus media Adams		
3-yr., TT, 8 to 12 ins.	35.00	325.00
Taxus media andersoni		
3-yr., TT, 6 to 12 ins.	35.00	325.00
Taxus media browni		
3-yr., TT, 8 to 12 ins.	35.00	325.00
Taxus cuspidata		
3-yr., TT, 8 to 12 ins.	35.00	325.00
Taxus media hatfieldi No. 18		
3-yr., TT, 6 to 10 ins.	35.00	325.00
Taxus media hicksi		
3-yr., TT, 6 to 12 ins.	35.00	325.00
Taxus media hunnewelliana		
3-yr., TT, 6 to 12 ins.	35.00	.....
Taxus intermedia		
3-yr., TT, 6 to 12 ins.	35.00	325.00
Taxus media Moon's columnaris		
3-yr., TT, 6 to 12 ins.	35.00	.....
Taxus media thayerae		
3-yr., TT, 6 to 12 ins.	35.00	.....
Taxus media wardi		
3-yr., TT, 6 to 10 ins.	40.00	350.00
Juniperus horizontalis plumosa		
2-yr., TT, 6 to 10 ins.	35.00	325.00
Juniperus horizontalis Bar Harbor		
2-yr., TT, 6 to 10 ins.	35.00	325.00
Juniperus glauca hetzi		
2-yr., TT, 6 to 12 ins.	30.00	275.00
3-yr., TT, 8 to 12 ins.	45.00	400.00
Juniperus (Irish) fastigiata		
2-yr., TT, 6 to 12 ins.	32.50	300.00
Juniperus chin. Nelson		
2-yr., TT, 6 to 12 ins.	32.50	300.00
Juniperus chin. pfitzeriana		
2-yr., TT, 6 to 12 ins.	30.00	275.00
3-yr., TT, 8 to 12 ins.	40.00	350.00
Thuja occ. elegantissima		
2-yr., TT, 6 to 12 ins.	30.00	275.00
3-yr., TT, 10 to 15 ins.	37.50	.....
Thuja occ. Hetz's Winter Green		
2-yr., TT, 6 to 12 ins.	30.00	275.00
Thuja occ. pyramidalis		
2-yr., TT, 6 to 8 ins.	30.00	275.00
Thuja occ. wareana (Siberian)		
2-yr., TT, 6 to 8 ins.	30.00	275.00
Thuja occ. woodwardi		
2-yr., TT, 4 to 8 ins.	30.00	275.00
3-yr., TT, 6 to 8 ins.	40.00	350.00

Complete catalog on request.
HEASLEY'S NURSERIES
247 Freeport Road Butler, Pa.

EVERGREENS

	Per 100
Cedrus deodara, 6 to 8 ins., s	$10.00
8 to 12 ins., s.	12.50
Juniperus glauca hetzi, 2-yr., bed-grown, 8 to 12 ins.	15.00
Juniperus chin. pfitzeriana, 2-yr., bed-grown, 8 to 12 ins.	20.00
Juniperus horizontalis plumosa (Andorra), 8 to 12 ins.	15.00
Podocarpus sinensis, 8 to 12 ins.	15.00
Retinospora ericoides, 8 to 12 ins.	10.00

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

JUNIPER GRAFTS

Varieties: Canaerti, glauca, Dundee, keteleeri, columnaris, blue; burki, armstrongi Pfitzer, Vase Juniper and our own Blue Globe Juniper. $45.00 per 100, $400.00 per 1000; 500 at 1000 rate. F.O.B. Warsaw, Ky.
Terms: 25 per cent deposit with order, balance at spring shipping time. Packing free.

ARROW-WOOD NURSERIES
Route 1 Warsaw, Ky.

EVERGREENS, Liners—*Continued*

EVERGREEN LINERS

	Each.	100	1000
POTTED LINERS, 2½-in. pots			
Pfitzer Juniper	$0.25		$0.20
Burk Juniper, 2-yr.	.25		.20
Woodward Globe Arborvitae	.21		.16
Pyramidal Arborvitae	.22		.17
Dark green American Arborvitae	.22		.17
Hetz glauca Juniper	.23		.18
POTTED LINERS, 2-in. pots			
Biota aurea nana, 2-yr.	.23		.18
Armstrong Pfitzer Juniper, 2-yr.	.23		.18
FIELD-GROWN LINERS, from pots and 2-yr. nursery row.			
Biota aurea nana	.45		.40
Pfitzer Juniper	.45		.40
Woodward Globe Arborvitae	.45		.40
FIELD-GROWN LINERS, from pots and 1-yr. nursery row.			
Biota aurea nana	.35		.30
Pfitzer Juniper	.35		.30
Woodward Globe Arborvitae	.35		.30
ROOTED CUTTINGS, heavy rooted cuttings in lath house, ready now.			
Pfitzer Juniper	.12		.11
Pyramidal Arborvitae	.11		.10
Woodward Globe Arborvitae	.10		.09
Dark green American Arb.	.11		.10
Taxus browni	.10		.09

TERMS: Cash with order. Free packing. 300 plants of a variety at 1000 rate. Write for special prices on large quantities.

VOGE NURSERY
New Lebanon, O.

POTTED LINERS

2¼-in. pots.	Each, 100	1000
Taxus, Adams, 1-yr.	$18.00	$170.00
Taxus, Adams, 2-yr.	24.00	220.00
Taxus andersoni, 1-yr.	18.00	170.00
Taxus andersoni, 2-yr.	24.00	230.00
Taxus andersoni, 3-yr., TT	35.00	325.00
Taxus browni, 1-yr.	18.00	170.00
Taxus browni, 3-yr., TT	35.00	325.00
Taxus capitata, 1-yr.	18.00	170.00
Taxus capitata, 2-yr.	23.00	220.00
Taxus capitata, 3-yr., TT	35.00	325.00
Taxus cuspidata, 1-yr.	17.00	160.00
Taxus cuspidata, 2-yr.	22.00	210.00
Taxus cuspidata, 3-yr., TT	35.00	325.00
Taxus cuspidata, 4-yr., TT	42.00	400.00
Taxus hicksi, 1-yr.	18.00	170.00
Taxus hicksi, 2-yr.	23.00	220.00
Taxus hicksi, 3-yr., TT	35.00	325.00
Taxus hicksi, 4-yr., TT	45.00	425.00
Taxus hunnewelliana, 1-yr.	18.00	170.00
Thuja globosa, 1-yr.	19.00	180.00
Thuja globosa, 2-yr.	25.00	240.00
Ilex convexa, 1-yr.	19.00	180.00
Ilex hetzi, 1-yr.	19.00	180.00
Ilex rotundifolia, 1-yr.	18.00	170.00
Ilex rotundifolia, 3-yr.	35.00	325.00
Ilex stokesi, pat. No. 887; 1-yr.	25.00	225.00

TERMS: No charge for packing. 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate. Special quotations on large orders.

HEASLEY BROS. NURSERY
Box 218, R. D. 1 Greensburg, Pa.

FIELD-GROWN LINERS

	Each.	100	1000
Greek Juniper, 6 to 8 ins.	$0.12		$0.10
Hetz Juniper, 6 to 8 ins.	.14		.12
Savin Juniper, 8 to 12 ins.	.12		.10
Savin Juniper, 6 to 8 ins.	.08		.07
Pfitzer Juniper, 4 to 8 ins.	.14		.12
Polish Juniper, 12 to 15 ins.	.12		.10
Ashford Juniper, 8 to 12 ins.	.12		.10
Andorra Juniper, 8 to 12 ins.	.12		.10
BED-GROWN			
Ilex rotundifolia (Jap. Holly)	.12		.10
Burford Holly (Chinese)	.12		.10
Sargent Barberry	.12		.10
Ilex bullata (Holly)	.12		.10
POTTED PLANTS (2¼-IN.)			
Andorra Juniper	.17		.15
Sargent Barberry	.20		.18
Burford Holly	.15		.13
Mahonia Holly	.17		.15
Yaupon Holly	.17		.15
Magnolias	.16		.15

Packing and boxing free. 2 per cent discount for cash with order. 250 plants of each variety at 1000 rate.

GRANT'S NURSERY
Route 2 Caledonia, Miss.

CANADA HEMLOCK, SEEDLINGS

	Per 1000	Per 10,000
3 to 6 ins.	$30.00	$250.00
6 to 9 ins.	45.00	400.00
9 to 12 ins.	60.00	550.00
12 to 15 ins.	85.00	.....
		Per 100
9 to 12 ins., transplants, 5-yr.		$25.00
9 to 12 ins., transplants, heavy 5-yr.		35.00

SOERGEL TREE SERVICE
Babcock Blvd. Gibsonia, Pa.

EVERGREEN LINERS

	Per 100
700 Hetz Juniper, 10 to 15, TT	$27.50
900 Taxus Cusp., 10 to 15, TTT	32.50
400 Taxus hicksi, 12 to 15, TTT	32.50
800 Globe Arborvitae woodwardi, 10 to 12, TT	35.00
900 Andorra Juniper, 10 to 15, TT	25.00

Heavy, field row transplants, suitable for canning. Spring delivery. Cash with order. WHERRY'S NURSERIES, St. Marys, W. Va.

EVERGREENS
4 to 6 ins. 6-8 8-12, tr. 12-16, tr.

Biotas, Berckmans'				
aurea nana	7½c	10c	15c	20c
bonita	7½c	10c	15c	30c
bakeri	7½c	10c	..	..
excelsa	7½c	10c	14c	18c
sibyli	7½c	10c	14c	18c
Juniperus,				
excelsa stricta	8c	10c	15c	20c
glauca hetzi	6½c	9c	14c	18c
pfitzeriana	7c	9c	..	..
Juniper, Andorra	7c	9c	14c	18c
Ilex rotundifolia	6c	8c	12c	..
Ilex burfordi	7c	9c	..	..
Pyracantha lalandi		8c	cb12c	..
Cherry Laurel, seedlings		8c	10c	..
Camphor, seedl.		..	8c	10c

Prices: Above prices are for 100 lots. Add 1c for less than 1000 to items 10c or less. Add 2c for less than 1000 to items over 10c. Prices and sizes subject to change without notice.

THE BUSH RANCH
140 Woodland Dr. Thomasville, Ga.
James W. Lawson, Mgr. Phone CAnal 6-4245

EVERGREEN SEEDLINGS

	100	1000
Scotch Pine, 2-yr.		
French D'Auvergne, 4 to 8 ins.	$5.00	$25.00
French D'Auvergne, 5 to 10 ins.	6.00	30.00
Spanish Sierra Guad., 4 to 8 ins.	6.00	30.00
Spanish Sierra Guad., 6 to 12 ins.	7.00	35.00
Austrian Pine, 3 to 6 ins.	6.00	....
Jap. Black Pine, 4 to 8 ins.	7.00	....
Douglas Fir, 3 to 6 ins.	5.00	....
Scotch Pine, 3-yr.		
Non-yellowing, 6 to 12 ins.	6.00	30.00
Non-yellowing, 8 to 14 ins.	7.00	35.00
American Arborvitae, 3 to 6 ins.	5.00	25.00
Concolor Fir, 4 to 9 ins.	10.00	50.00
Nikko Fir, 5-yr., 8 to 14 ins.	25.00	....
Colorado Blue Spruce, 3-yr.		
3 to 6 ins.	6.00	30.00
4 to 8 ins.	9.00	42.50
6 to 10 ins.	12.00	60.00
Douglas Fir, 3-yr., 5 to 10 ins.	7.00	....
Douglas Fir, 4-yr., 8 to 16 ins.	12.00	....

Terms: Remittance with order. Plants at the 100 rate sent via parcel post prepaid, up to zone 5.

NEUNER'S EVERGREEN NURSERY
368 Eicher Road Pittsburgh 2, Pa.

EVERGREENS

	100	1000
Scotch Pine, 2-yr., 2 to 4 ins.	....	$10.00
Scotch Pine, 2-yr., 4 to 8 ins.	$ 3.50	20.00
Scotch Pine, 3-yr., 6 to 12 ins.	6.00	28.00
4-yr. trans., 2-2, 10 to 15 ins.	12.00	65.00
5-yr. trans., 2-3, 12 to 20 ins.	15.00	90.00
Austrian Pine, 2-yr., 3 to 6 ins.	3.50	20.00
Austrian Pine, 3-yr., 6 to 12 ins.	5.00	28.00
American Red Pine, 3-yr., 5 to 10 ins.	5.00	25.00
Mugho Pine, 3-yr., 3 to 5 ins.	5.00	25.00
Norway Spruce, 2-yr., 4 to 8 ins.	5.00	25.00
Colorado Blue Spruce, 2-yr., 3 to 6 ins.	5.00	25.00
Black Hills Spruce, 3-yr., 4 to 8 ins.	6.00	30.00
Douglas Fir, 3-yr., 3 to 6 ins.	5.00	30.00
Concolor Fir, 3-yr., 4 to 9 ins.	6.00	35.00
American Arborvitae, 3-yr., 3 to 6 ins.	5.00	25.00
3-yr., 5 to 9 ins.	6.00	35.00

Write for complete price list and planting information.

CHAPMAN'S NURSERY
553 Church St. Indiana, Pa.

EVERGREENS, ROOTED CUTTINGS

Arborvitae, American, dark green; 6 to 10 ins.	$0.10	$0.09
Arborvitae, pyramidal, 6 to 10 ins.	.10	.09
Arborvitae, globe, 4 to 8 ins.	.09	.08
Juniper, Hetz, 6 to 10 ins.	.09	.08
Juniper, Pfitzer, 6 to 10 ins.	.10	.09
Juniper, Savin, 6 to 10 ins.	.09	.08
Juniper, Von Ehron, 6 to 10 ins.	.10	.09
Juniper, Andorra, 6 to 10 ins.	.09	.08
Taxus cuspidata, 6 to 10 ins.	.09	.08
Taxus hunnewelliana, 6 to 10 ins.	.09	.08
Taxus hicksi, 6 to 10 ins.	.11	.10
Taxus capitata (leaders), 6 to 10 ins.	.13	.10

250 at 1000 rate, Spring delivery. 3 per cent discount, cash with order.

DE WINTER'S NURSERY
653 Port Sheldon Rd. Grandville, Mich.

JUNIPER GRAFTS

Varieties: Canaerti, keteleeri, burki, glauca, dundee, chinensis columnaris, blue; Pfitzer and Hetz. All on virginiana understock. Priced: 45c each, regardless of number purchased.

Terms: One-fourth cash with order and balance before shipping date. Boxing and packing at cost. All cash with order earns free packing and boxing.

WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM
T. C. CRUME NURSERY & LANDSCAPE CO.
Highway 42 Florence, Ky.
Phone Atlantic 3-2361

EVERGREEN LINERS

10 to 12-in. Pfitzer, Savin and Compact Pfitzer, in 2½-in. pots, ready now or in spring.

RAU FLORAL AND NURSERY
4607 Savannah Rd. St. Joseph, Mo.

PINE, SPRUCE SEEDLINGS AND LINERS

	100	1000
Scotch Pine, 3-yr., 8 to 14 ins.	$ 6.00	$35.00
Colo. Blue Spruce, 4-yr., 6 to 12 ins.	8.00	55.00
Norway Spruce, 3-yr., 6 to 12 ins.	6.00	40.00
Juniperus glauca hetzi, 2-yr., 6 to 12 ins.	25.00	....
Spreading Jap. Yew, 3-yr., 4 to 8 ins.	30.00	....

Write for complete list.

PAINT CREEK NURSERIES
R. D. 1 Shippenville, Pa.

LARGE TAXUS LINERS

3 and 4-yr. transplants, field-grown from cuttings; selected strain.

	Each.	100	1000
Cuspidata, 12 to 15 ins.	$0.70		$0.65
Cuspidata capitata, 8 to 12 ins.	.55		.50
Cuspidata capitata, 12 to 18 ins.	.75		.70
Cuspidata capitata, 18 to 24 ins.	.85		.75
Media hicksi, 12 to 18 ins.	.70		.65

Samples at cost.

BULK'S NURSERIES
610 W. Montauk Highway Babylon, N. Y.

BERCKMANS' GOLDEN ARBORVITAE
OUR SPECIALTY
Sturdy liners, dirt-grown in full sun.

	Each,	100	1000
4 to 6 ins.	8c		7½c
6 to 8 ins.	11c		10c
8 to 12 ins.	16c		15c
12 to 16 ins.	22c		20c

THE BUSH RANCH
140 Woodland Dr. Thomasville, Ga.
James W. Lawson, Mgr. Phone CA 6-4245

EVERGREEN LINERS AND CUTTINGS
ROOTED CUTTINGS

Pfitzer Juniper	8c
Pfitzer Hetz Juniper	8c
2¼-IN POTTED	
Pfitzer Juniper	18c
Pfitzer Hetz Juniper	18c

TOWNSEND EVERGREEN NURSERY
S. Walnut St. Hartford City, Ind.

DOUGLAS FIR

2-yr., field-grown, average 8 to 10 ins., graded. Root pruned. Very carefully packed. $25.00 per 1000, F.O.B. Sheridan. $100.00 per 5000, F.O.B. Sheridan. Order now. Spring, 1959, delivery. 5 per cent discount all cash orders.
FULTON V. SMITH, SHERIDAN, ORE.

EVERGREENS

See our Classified ad in this issue under LINING-OUT STOCK.
T. G. OWEN & SON, INC.
Columbus, Miss.

FRUIT AND NUT TREES

CHOICE FRUIT TREES
FOR FALL OR SPRING SHIPMENT

2-yr. and dormant bud Apple trees. Varieties as follows: Red Delicious, Yellow Delicious, Red June, Lodi, Red Jonathan and Twenty Ounce, 2 to 3 ft., 30c; 3 to 4 ft., 40c; 4 to 6 ft., 50c each. Mostly branched.

Dormant bud Pear trees, mostly branched and very nice. Varieties: Kieffer, Garber and Bartlett, 4 to 5 ft., 60c; 5 to 6 ft., 75c each. Some of the 5 to 6 will run 6 to 7 ft.

Dormant bud Peach trees. Varieties: Redhaven, Dixigem, Early Elberta, Golden Jubilee, Halehaven, Giant Hale, Elberta and Georgia Bell, 3 to 4 ft., 30c; 4 to 5 ft., 40c; 5 to 6 ft., 50c each.

June bud Peach trees. Varieties: Cardinal, Dixired, Dixigem, Early Elberta, Redhaven, Halehaven, Elberta, Giant Hale, Red Cap, Red Indian and Red Flowering, 12 to 18 ins., 15c; 18 to 24 ins., 20c; 2 to 3 ft., 25c; 3 ft. up, 30c each. These are extra clean and nice.

Grapevines, 2-yr.-old, No. 1 vines, 15c each. Varieties: Concord, Fredonia and Delaware. We have a few hundred Niagara.

All the above are extra nice and guaranteed to please your customers. 5 per cent discount for cash with orders. Free packing. Please state how to ship, express or motor freight. Shipping now through March.

EAST'S NURSERY
P. O. Box 5 Amity, Ark.

CLARK DWARF APPLE

Scions	Per 100	Per 1000
6 to 12 ins.	$ 8.00	$ 7.00
12 to 18 ins.	16.00	14.00
18 to 24 ins.	24.00	21.00
24 to 30 ins.	32.00	28.00
CLARK DWARF APPLE GRAFTS		
Whole-root	30.00	25.00
Piece-root	25.00	22.50
2-yr. Clark grafts	95.00	85.00

Grafts made up on hardy type roots. Calused. Ready February 1. Cash. Prepaid.
WHEELOCK WILSON NURSERY
Marshalltown, Ia.

THOMAS BLACK WALNUTS

Grafted, 18 to 24 ins., 75c; 2 to 3 ft., $1.00; 3 to 4 ft., $1.25; 4 to 5 ft., $1.40. We grow the nicest Thomas Black Walnut trees in the country. Minimum order, 25 trees, 25 per cent with order, balance on delivery; no credit shipments. All prices net, F.O.B. Rogers; no charge for packing.
CLINGER NURSERY
Highway 71 West Rogers, Ark.

CHOICE FRUIT TREE LINERS
AVAILABLE FOR QUICK SHIPMENT

1-yr. Apple whips: Double Red Delicious, Yel. Delicious, Red Stayman, Kinnard Choice, Yorking, Winesap, Yel. Transparent, Red Jonathan, Anoka, Red Rome Beauty, 18 to 24 ins., 15c each; 2 to 3 ft., 20c; 3 to 4 ft., 30c each.

June bud Peaches: Dixired, Dixigem, Redhaven, Elberta, Early Elberta, Belle of Georgia, 12 to 18 ins., 12c each (tied 25's).

Pear tree whips: Kieffer only, 2 to 3 ft., 30c each; 3 to 4 ft., 40c; 4 to 5 ft., 50c each.

Flowering Crab Apple whips: Eleyi and Hopa, 2 to 3 ft., 30c; 3 to 4 ft., 40c; 4 to 5 ft., 50c.

Flowering Peach liners: Double Red-flowering Peach, 12 to 18 ins., 15c each; 18 to 24 ins., 20c each.

Weeping, Red-flowering Peach, 6 to 12 ins., 15c; 18 to 24 ins., 20c each (tied 25's).

Plum Thundercloud, purple, 12 to 18 ins., 15c each; 18 to 24 ins., 20c each (tied 25's).

You will like these quality liners. Order at once. Don't be left out. Send for surplus list on Rosebushes, fruit tree seedlings, shade, flowering shrubs, ornamental trees, etc. 4 per cent discount for cash with order. Free packing.

GLOBE NURSERIES
Box 249 McMinnville, Tenn.

PECAN TREES, PAPER-SHELL

The nation's finest quality paper-shell Pecan trees. Vigorous, heavy caliper, smooth trees, grown under irrigation. All staked and trimmed for best appearance. Machine dug with the whole fibrous root system intact. Free, four-color Point of Purchase banners showing in life-like color, all varieties. Free planting guide for your customers. Order now while selections are complete. Varieties available: Stuart, Success, Mahan, Schley, John Garner, Western Schley, Burkett.

PRICES

	10	100	500
4 to 5 ft.	$1.85	$1.80	$1.75
5 to 6 ft.	2.35	2.30	2.20
6 to 7 ft.	3.30	3.20	3.10
7 to 8 ft.	3.85	3.75	3.65
8 to 10 ft.	4.45	4.35	4.25

WOLFE NURSERY
Box 2000 Stephenville, Tex.

PEACH TREES

Buds are selected from best of 30,000 bearing trees, true to name. All listings are grown by us in our nursery. Cardinal, Coronet, Dixired, Halehaven, Hiland, Mayflower, Red Cap, Elberta, Redskin.

This stock guaranteed satisfactory or return for full refund.

	Each	10	100
2 to 3 ft., 5/16-in. cal.	$0.30		$0.25
3 to 4 ft., 7/16-in. cal.	.40		.35
4 to 5 ft., 9/16-in. cal.	.50		.45
5 to 6 ft., 11/16-in. cal.	.60		.55
6 ft. and up	1.00		.90

Terms: Packing without cost. Cash, or 25 per cent with order. F.O.B. Clanton.

DENNIS NURSERY
Temple Road Clanton, Ala.

DWARF APPLE TREES

E. MALLING VII AND IX

3 to 5 ft., 2-yr., branched ..... $1.50 each
2 to 3 ft., 2-yr., branched ..... 1.20 each

Yellow Delicious, Red Delicious, Macoun, Stayman, Astrachan, Cortland, Duchess, McIntosh, Baldwin, Yellow Transparent.

BAUM'S NURSERY
Route 4 Danbury, Conn.

SPECIAL OFFER!

FRUIT TREE STOCK

East Malling type No. 7, well-rooted layers (home-grown). $150.00 per 1000. Price if F.O.B. Lincoln Park, N. J. No packing charge. Stock is offered to being unsold on receipt of order.

LINCOLN PARK NURSERIES
Lincoln Park, N. J.

PEAR SEEDLINGS

Pyrus calleryana (Pear), seedlings, grown in virgin soil, open field rows.

Per 1000

No. 2, 2/16 to 3/16-in. caliper $30.00
No. 1, 3/16 to ¼-in. caliper 40.00
Choice grafting grade, ¼ to 3/8-in. cal. 50.00

Priced F.O.B. Glenwood, Ark. No charge for packing if cash with order.

WRIGHT'S NURSERY, GLENWOOD, ARK.

DWARF EAST MALLING ROOT STOCK
for Apples, Pears, Peaches.
See our ad on page 76.
V. KRAUS NURSERIES
Carlisle, Ont., Canada

GRAPEVINES

CONCORD, Niagara, 2 yrs. old, No. 1, extra heavy, 10c each; 2-yr., No. 2, 6c each.

McKEE'S NURSERY
P. O. Box 749 Covington, La.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads

GARDENIAS

GARDENIA FORTUNEI

Extra heavy plants from 2¼-in. pots.

Per 100 ..... $ 12.50
Per 1000 ..... 100.00

GARDENIA RADICANS

2¼-in. pots, per 100 ..... 12.50
8 to 12 ins., bare-root, heavy, per 100. 12.50

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

GERANIUMS

QUALITY GERANIUM CUTTINGS

Rooted, $7.50 per 100, $70.00 per 1000. Special varieties slightly higher. Catalog of over 150 leading varieties free.

C. SECRIST, MUSCATINE, IA.

GROUND COVERS

PERIWINKLE

Hardy running Myrtle (Vinca minor), heavy 15 to 25-cane clumps of better than ever quality, dug and shipped fresh, $50.00 per 1000.

Honeysuckle (Hall's halliana), 2 to 3 branched, $45.00 per 1000.

English Ivy (Hedera helix), 1-yr., rooted cuttings, $50.00 per 1000.

Pachysandras, 1-yr., rooted cuttings, $50.00 per 1000.

H. C. WAUGH
Box 41, Upper River Rd. Gallipolis, O.

Hardy Myrtle (Vinca minor), plants with 20 leads or more and good roots, $5.00 per 100, $45.00 per 1000. Pachysandras, sand-rooted cuttings, $40.00 per 1000. English Ivy, sand-rooted cuttings, $40.00 per 1000. Cash. Also potted stock of all items listed.

Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

VINCA MINOR (MYRTLE)

20 to 30 leads, $50.00 per 1000.
5000 up, $45.00 per 1000.

Dug fresh March 1, 1959, on Euonymus and Ajugas.

VAUGHAN'S NURSERY & GHSE. CO.
15910 Cleveland Rd., R. 2 Granger, Ind.

Euonymus alatus compactus, rooted cuttings. Please see complete list on page 69. Templeton, Phytotektor, Winchester, Tenn.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS

Cornus sibirica, Hydrangeas, P. G. and A. G.; Privet Amur River North, Honeysuckles, zabeli, bella, tatarica rosea and morrowi; Philadelphus, Physocarpus aureus, Spiraeas, froebeli, thunbergi and vanhouttei; Snowberry, Forsythias, Lynwood Gold and spectabilis, $3.50 per 1000.

Evergreen cuttings: Junipers, Andorra, Pfitzer, Greek; Taxus, cuspidata and capitata; Arborvitae, pyramidal and globe, $12.00 per 1000.

ADAMS NURSERY, MONTICELLO, IA.

HARDWOOD CUTTINGS

Unrooted. Hand-trimmed from good stock.

Taxus cuspidata — Taxus hatfieldi
Taxus hicksi — Taxus browni
Taxus pyramidalis hilli.
Taxus intermedia.

$20.00 per 1000. F.O.B. Cash in advance. Shipping now to January 15. No packing charge.

JOSEPH HOLLER FLORIST & NURSERY
Paris, Ill.

HARDY PLANTS

DICENTRA SPECTABILIS

An extra fine crop and our large volume permits us to offer these superior plants at these low prices.

	Per 10	Per 100	Per 1000
2 to 3 eyes	$2.50	$17.50	$150.00
3 to 5 eyes	3.50	25.00	225.00
4 eyes up (for potting)	4.00	30.00	250.00
5 to 8 eyes	4.50	35.00	325.00
DICENTRA EXIMIA (plumy everblooming type).			
2 to 3 eyes	$2.50	$15.00	$125.00
3 to 5 eyes	3.00	20.00	175.00
5 to 8 eyes	3.50	25.00	225.00

250 of a size take the 1000 rate.

GROWERS EXCHANGE
Farmington 8, Mich.

PITZONKA'S FIELD-GROWN PERENNIALS

Strong field-grown plants. Write for trade list.

PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

Liriopes (Ophiopogon), hardy, evergreen, for walks and borders; strong divisions, $20.00 per 1000.

Mountville Nurseries, Mountville, Ga.

SPECIALISTS IN HARDY PERENNIALS
Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

WELLER'S BETTER PERENNIALS
WELLER NURSERIES CO., Holland, Mich.
Write for trade list.

IMPORTED ASTILBE
(Herbaceous Spiraea.)

BONN (deep rose), FANAL (deep red) and DEUTSCHLAND (pure white). Fine pot plant. Perfectly hardy, shade-loving perennial. $4.00 per 10, $30.00 per 100, $200.00 per 1000.

GROWERS EXCHANGE
Farmington 8, Mich.

GYPSOPHILAS

BRISTOL FAIRY, 1-YEAR GRAFTS.
$6.00 per 10, $50.00 per 100, $400.00 per 1000.
FLAMINGO (PINK), 1-YEAR GRAFTS.
$7.00 per 10, $60.00 per 100, $500.00 per 1000.
250 take the 1000 rate.

GROWERS EXCHANGE
Farmington 8, Mich.

HARDY PLANTS

Our new listing of well-developed perennial plants is now available. Plan now to set our field-grown plants into pots or bands, so that you may have them ready to go for the early spring rush.

WALTERS GARDENS
Route 2 Zeeland, Mich.

PERENNIALS

Over 500,000 plants.
Over 475 varieties of choice premium stock.
Send for catalog.
SPRINGBROOK GARDENS, INC.
Mentor, O.

America's best source
for Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

HEATHERS

HEATHERS

OVER 100 VARIETIES

4 to 6 ins. and 6 to 8 ins. from 4-in. bands, for spring, 1959 shipment. Write for "Heather Bloom Calendar" and price list.

W. M. STEWARD
Rt. 1, Box 422 Maple Valley, Wash.

HELLEBORUS

HELLEBORUS NIGER
(Christmas Rose)

3-yr. transplants, blooming size.

Suitable to pot up for sales on roadside stands and garden centers.

$50.00 per 100, $450.00 per 1000.

C. HOOGENDOORN
Turner Rd. Newport, R. I.

HOLLY

HOLLY (ILEX)

FREE packing on all liners. Try these and you will agree there are none finer!

	Per 100
Ilex cornuta burfordi, 2¼-in. pots (8 to 12 ins.)	$15.00
8 to 12 ins., bare-root	12.50
12 to 18 ins., bare-root	15.00
Ilex cornuta femina, 3-in. pots (8 to 12)	20.00
Ilex crenata convexa, 8 to 10 ins., bare-root, TT	15.00
Ilex crenata Foster No. 1, 6 to 8 ins., heavy	15.00
Ilex crenata helleri, 2¼-in. pots, branched	15.00
Ilex crenata hetzi, 3-in. pots	20.00
8 to 12 ins., bare-root	20.00
Ilex crenata rotundifolia, 10 to 15 ins., bare-root, TT	15.00
Ilex crenata Stokes (pat. 887), 2¼-in. pots, branched	20.00
Ilex vomitoria nana, 2¼-in. pots, branched	17.50

Other sizes available in the above. Send for listing on these and other fine liners. SATISFACTION GUARANTEED!

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

HOLLY

	Each	100
Ilex crenata (Japanese Holly), B&B		
2 to 2½ ft.	$4.00	
2½ to 3 ft.	5.00	
3 to 3½ ft.	6.25	
3½ to 4 ft.	7.25	
4 to 5 ft.	9.00	
Ilex crenata (spreading type), B&B		
15 to 18 ins., spreading	$3.00	
18 to 24 ins., spreading	3.90	
2 to 2½ ft., spreading	5.00	
2½ to 3 ft., spreading	6.00	

BULK'S NURSERIES
610 W. Montauk Highway Babylon, N. Y.

POTTED ILEX LINERS

Bushy, sheared plants, grown in sterilized soil, in 2¼-in. pots. Excellent value.

	Per 100	Per 1000
Ilex convexa bullata	$0.16	$0.14
Ilex crenata helleri	.17	.15
Ilex rotundifolia	.16	.14

Order today.
WIGHT NURSERIES, INC.
Cairo, Ga.

HOLLY (ILEX)
See our display ad on page 43.
BLACKWELL NURSERIES
Semmes, Ala.

HOLLY—*Continued*

ILEX OPACA
SUPERIOR NAMED VARIETIES
WHOLESALE SUPPLIERS
OF LINING-OUT STOCK
Write for our price list.
HOLLY HAVEN, INC.
Box 75 New Lisbon, N. J.

MAY WE QUOTE YOU ON OUR
BETTER OREGON HOLLIES?
Skimmia Japonica, general nursery stock.
ALFRED TEUFEL, WHOLESALE GROWER
11414 N. W. Cornell Rd. Portland, Ore.

Holly liners, Ilex opaca, Ilex cornuta burfordi, Ilex, crenata convexa, hetzi and rotundifolia.
Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

VARIEGATED HOLLY
Strong rooted cuttings, 4 or 6 leaves, 20c.
Ready now. Cash with order, please.
KRUSCHKE GREENHOUSES
Clackamas, Ore.

Foster's No. 2 Hybrid Holly (Ilex).
Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

HONEYSUCKLES

HONEYSUCKLE (LONICERA ZABELI)

Husky 1-yr. liners,
true to name.
Row-run, 10 to 24 ins.,
100, $14.00; 250, $30.00; 1000, $110.00.
Packing free.

HEARD GARDENS
R. 1, Box 134 Des Moines, Ia.

HONEYSUCKLES
Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants. 3, 4 to 6 leads, $40.00 per 1000; lighter grade, $30.00 per 1000; sample, 100, $4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.
ROBINSON NURSERY CO., Greenville, Ga.

IRISES

Japanese Irises (kaempferi), assorted colors, labeled; blooming size divisions, 50 for $6.00; 100 for $11.00, prepaid.
V. W. Wilson, R. 3, Savannah, Ga.

IVIES

BALTIC IVY
Hardiest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants.

	Per 100	Per 1000
Rooted cuttings	$ 7.00	$ 65.00
2-in. pots	12.50	115.00

NEW THORNDALE IVY
2½-in. pots ..... $25.00 per 100
Euonymus kewensis, 2-in. pots, 20.00 per 100
EUONYMUS VEGETUS
2-in. pots, $12.00 per 100, $110.00 per 1000.
2-yr., field-grown, $35.00 per 100.
STRATFORD GARDENS
Russell Breece, M. R. 9 Delaware, O.

ENGLISH IVY (HEDERA HELIX)
Our super quality large-leaved strain.
Approved landscape architects' standards.
Order now! Ready for immediate shipment.
Strong 5 to 7-in. cuttings from field plants, $6.00 per 100, $50.00 per 1000.
BABCOCK GARDENS, R. 3, Jamestown, N.Y.

ENGLISH IVY (HEDERA HELIX).
Rooted cuttings,
$20.00 per 1000.
FRED C. GLOECKNER & CO., INC.
15 E. 26th St. New York 10, N. Y.

Ivies, hardy English (Hedera helix), $3.50 per 100, $25.00 per 1000. Hahn's, $5.00 per 100, $40.00 per 1000. Holly Acres Nursery, Box 669, Red Bank, N. J.

LINING-OUT STOCK

LINING-OUT STOCK
We offer the following in heavy 2-yr. liners, ideal for field planting.

	Each	100
AZALEA KAEMPFERI, 2-yr., TT		$0.20
ARBORVITAE, WOODWARDI GLOBE, 2-yr., T		.20
ELEGANTISSIMA, 2-yr., T		.20
TAXUS HICKSI, 2-yr., T		.25
TAXUS, ADAMS, 2-yr. POTS		.25

CHAMPION NURSERIES
Perry, O.

FINER LINERS
Time is your biggest expense. To grow only select quality plants of the better varieties is good, sound business and profitable. Don't fail to check our descriptive catalog. Free copy on request. We offer dependable quality and service. Ask about special discounts and surplus offerings.
JOHN VERMEULEN & SON, INC.
Neshanic Station, N. J.
Finer liners since 1921

LINING-OUT LIST
PRICES SUBJECT TO CHANGE
WITHOUT NOTICE.
ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENT IN PAPER POTS OR CUPS. THOSE WHO PREFER THE ORDINARY METHOD OF PACKING WHICH OMITS THIS ADDED PROTECTION, MAY DEDUCT 1c PER PLANT. MINIMUM QUANTITIES: ORDERS FOR 25 TO 249 OF A VARIETY IN ONE SIZE TAKE THE 100 RATE. ORDERS FOR 250 OR MORE OF A VARIETY IN ONE SIZE TAKE THE 1000 RATE.

	Each, 100	1000
BIOTA AUREA NANA		
2¼-in. pots	$0.18	$0.16
2½-in. pots	.20	.18
BIOTA BAKERI		
2¼-in. pots	.16	.15
2½-in. pots	.18	.17
BIOTA BONITA		
2¼-in. pots	.18	.16
*2½-in. pots	.20	.18
BIOTA BONITA, upright		
*2¼-in. pots	.18	..
*2½-in. pots	.20	..
BIOTA EXCELSA		
2½-in. pots	.20	.19
BIOTA SIBYLI		
2½-in. pots	.18	.17
CEDRUS DEODARA		
2¼-in. pots	.16	.14
BLUE LAWSON CYPRESS		
2¼-in. pots	.16	.15
2½-in. pots	.17	.16
JUNIPERUS CHIN. PFITZERIANA		
2¼-in. pots	.18	.16
2½-in. pots	.19	.17
JUN. CHIN. PFITZERIANA COMP.		
2¼-in. pots	.18	.16
2½-in. pots	.19	.17
JUN. CHIN. PFITZERIANA NANA		
2¼-in. pots	.20	.19
2½-in. pots	.25	.24
JUN. PFITZERIANA BLUE GRAY		
2¼-in. pots	.17	.15
2½-in. pots	.19	.17
JUN. COM. CRACOVIA (POLISH)		
2¼-in. pots	.15	..
JUN. EXCELSA STRICTA		
2¼-in. pots	.18	.16
2½-in. pots	.20	.18
JUN. GLAUCA HETZI		
2¼-in. pots	.18	.16
2½-in. pots	.20	.18
JUN. HIBERNICA FASTIGIATA		
2¼-in. pots	.17	.16
2½-in. pots	.18	.17
JUN. ANDORRA		
2¼-in. pots	.17	.16
2½-in. pots	.18	.17
JUN. JAPONICA VIRGINALIS		
*2¼-in. pots	.16	..
JUN. SABINA TAMARISCIFOLIA		
2¼-in. pots	.20	..
2½-in. pots	.22½	..
THUJA OCC. GLOBOSA		
2¼-in. pots	.17	.16
2½-in. pots	.19	.18
THUJA OCC. PYRAMIDALIS		
2¼-in. pots	.17	.16
2½-in. pots	.19	.18
THUJA OCC. HETZ'S WINTER GREEN		
*2¼-in. pots	.17	.16
TAXUS BREVIFOLIA		
2½-in. pots	.20	.18
TAXUS CUSPIDATA		
2¼-in. pots	.19	.17
2½-in. pots	.20	.18
TAXUS MEDIA HICKSI		
2¼-in. pots	.19	.17
2½-in. pots	.20	.18
TAXUS INTERMEDIA		
2¼-in. pots	.19	.17
TAXUS MEDIA SIEBOLDI		
2¼-in. pots	.19	.17
2½-in. pots	.20	.18
ABELIA GRANDIFLORA		
2¼-in. pots	.13	.12
2½-in. pots	.15	.14
8x12 ins., TT, field-grown	.16	.15
12x15 ins., TT, field-grown	.18	.17
BERBERIS JULIANAE		
2¼-in. pots	.20	.18
2½-in. pots	.22½	.20
BERBERIS SARGENTI		
*2¼-in. pots	.18	.16
BUXUS JAPONICA		
Rooted cuttings	.08	.06
2¼-in. pots	.13	.12
2½-in. pots	.15	.14
BUXUS SEMPERVIRENS		
2¼-in. pots	.17	.16
2½-in. pots	.19	.18
BUXUS SEMPERVIRENS CRONI		
2¼-in. pots	.20	.18
BUXUS SUFFRUTICOSA		
2¼-in. pots	.18	.16
2½-in. pots	.20	.18
COTONEASTER PARNEYI		
2¼-in. pots	.16	.15
ELAEAGNUS FRUITLANDI		
2¼-in. pots	.16	.15
2½-in. pots	.18	.17
EUONYMUS MICROPHYLLUS PULCHELLUS		
2¼-in. pots	.17	.15
EUONYMUS RADICANS ERECTUS		
2¼-in. pots	.16	.15
GARDENIA FORTUNEI		
2¼-in. pots	.15	.14
2½-in. pots	.16	.15

(Continued in next column)

(Continued from previous column)

GARDENIA RADICANS		
2¼-in. pots	.15	.14
2½-in. pots	.16	.15
ILEX CORNUTA FEMINA		
2½-in. pots	.20	..
ILEX CORNUTA, seedlings		
2¼-in. pots	.14	.12
2½-in. pots	.15	.14
ILEX CORNUTA BURFORDI		
2¼-in. pots	.15	.14
2½-in. pots	.16	.15
ILEX CREN. CONVEXA BULLATA		
2¼-in. pots	.17	.16
2½-in. pots	.18	.17
ILEX CRENATA FOSTERI NO. 1 A new low growing compact spreader. Its small serrated foliage leaves are not convex and are more pointed than those of Ilex convexa bullata. Excellent material for plantings where low compact spreading specimens are required.		
2¼-in. pots	.18	.16
ILEX CRENATA HETZI		
2¼-in. pots	.16	.15
2½-in. pots	.18	.17
ILEX CRENATA REPANDENS		
*2¼-in. pots	.15	.14
ILEX CRENATA ROTUNDIFOLIA		
Rooted cuttings	.06	.05
2¼-in. pots	.15	.14
2½-in. pots	.16	.15
ILEX OPACA FEMINA		
2¼-in. pots	.22½	.20
2½-in. pots	.25	.22½
ILEX OPACA, male		
2¼-in. pots	.22½	..
ILEX OPACA, seedlings		
2¼-in. pots	.14	.12
ILEX OPACA EAST PALATKA		
2¼-in. pots	.16	.15
2½-in. pots	.18	.17
ILEX VOMITORIA		
2¼-in. pots	.15	..
ILEX VOMITORIA NANA (dwarf)		
2¼-in. pots	.22	.20
CHERRY LAUREL		
6x8-in. seedlings	.08	.06
*2¼-in. pots	.14	.12
LIGUSTRUM IONANDRUM Introduced by U. S. Government from The Orient. Foliage leaves are as small as those of Ilex crenata. Will form a perfect specimen by natural growth without shearing.		
2¼-in. pots	.16	.15
2½-in. pots	.18	.16
LIGUSTRUM LUCIDUM COMP.		
2¼-in. pots	.16	.15
2½-in. pots	.18	.16
LIGUSTRUM SIN. PENDULA (WEEPING AMUR RIVER SOUTH PRIVET)		
2¼-in. pots	.12	.10
MAGNOLIA GRANDIFLORA		
2¼-in. pots	.16	.15
2½-in. pots	.18	.17
NANDINA DOMESTICA		
2¼-in. pots	.11	.10
2½-in. pots	.13	.12
3-in. pots	.20	.18
PHOTINIA SERRULATA		
1½x3-in. seedlings	.02½	.02
2¼-in. pots	.18	.16
2½-in. pots	.20	.18
PODOCARPUS SINENSIS		
2¼-in. pots	.15	.14
2½-in. pots	.16	.15
PYRACANTHA BELLI		
2¼-in. pots	.19	.18
2½-in. pots	.21	.20
PYRACANTHA COCCINEA LALANDI		
2¼-in. pots	.17	.16
2½-in. pots	.18	.17
PYRACANTHA YUNNANENSIS		
2¼-in. pots	.17	.16
TECRIUM CHAMAEDRYS		
2¼-in. pots	.12	.10
VIBURNUM TINUS		
2¼-in. pots	.13	.12
2½-in. pots	.16	.15
ACER PALMATUM ATROPURP. (seedlings)		
2x4-in. seedlings	.07	.05
*2¼-in. pots	.21	.20
BERBERIS THUN. ATROPURP.		
2¼-in. pots	.11	.10
2½-in. pots	.13	.12
CORNUS FLORIDA		
6x8-in. seedlings	.05	.04
2¼-in. pots	.12	.10
2½-in. pots	.14	.12
(Potted grades are grafting size)		
SPIRAEA ANTHONY WATERER		
2¼-in. pots	.10	.08

SPECIAL NOTICE: ITEMS MARKED BY (*) ASTERISK WILL BE AVAILABLE FOR DELIVERY EARLY SPRING OF 1959. ALL ITEMS NOT SO MARKED ARE READY FOR IMMEDIATE SHIPMENT OR LATER TO SUIT CUSTOMER'S REQUIREMENTS.

T. G. OWEN & SON, INC.
Columbus, Miss.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.
Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root .$0.05
Blue Hetz Juniper, 6 to 10 ins., bare-root .05
Burk Juniper (upright), 6 to 10 ins., bare-root .14
Pfitzer Juniper, 6 to 10 ins., bare-root .07
Pfitzer Juniper, plant bands .16
Hill's dark green American Arborvitae, (pyramidal), 6 to 8 ins., bare-root .12
Rosefield's Moonglow Juniper (upright scopulorum). A denser Blue Heaven, 6 to 8 ins., bare-root .30
Rosefield's Montana green Juniper (upright, semi-dwarf scopulorum). Requires no trimming .30
*Savin Juniper, 6 to 8 ins., bare-root .06
*Von Ehron Juniper, 6 to 8 ins., bare-root .06
Spreading Jap. Yew (Taxus cuspidata), 6 to 8-in. plant bands .20

DECIDUOUS, BARE-ROOT

Blue-leaved Arctic Willow, 10 to 12 ins. .06
Forsythia Arnold's Giant, 5 to 6 ins. .07
Forsythia Arnold's Dwarf, 4 to 6 ins. .12
Forsythia Beatrix Farrand, 6 to 10 ins. .08
Forsythia Lynwood Gold, 6 to 10 ins. .05
Forsythia nana compacta, 5 to 8 ins. .05
Forsythia Spring Glory, 8 to 12 ins. .04
Hydrangea A.G., 6 to 10 ins. .10
Hypericum Hidcote, 6 to 10 ins. .06
Hypericum kalmianum, 8 to 10 ins. .06
Honeysuckle, zabeli (bush), 10 to 12 ins. .05
Honeysuckle (vine), heckrotti, giant-flowering, everblooming (Gold Flame), 10 to 12 ins. .05
Privet, Chinese (Wayside Gardens strain), 8 to 12 ins. .04
Privet, Lodense, 6 to 10 ins. .05
Privet, golden vicari. All yellow. 6 to 10 ins. .07
Spiraea macrothyrsa, everblooming pink plumes. 10 to 12 ins. .05
Viburnum opulus sterile (Snowball), 6 to 8 ins. .10
Viburnum tomentosum (Doublefile Snowball), 6 to 8 ins. .10
Weigela vanicekl, 8 to 6 ins. .06

BROADLEAFS

Euonymus carrierei, 8 to 10 ins. .04
Euonymus patens Flagpole (small-leaved), 8 to 10 ins. .04
Euonymus patens Owen (small-leaved), 8 to 10 ins. .04
Euonymus patens Newport (medium-leaved), 8 to 10 ins. .04
Euonymus patens Rosehill (medium-leaved), 8 to 10 ins. .04
Euonymus patens, large-leaved, 8 to 10 ins. .04
Euonymus coloratus, 6 to 10 ins. .04
Euonymus radicans, upright (Sarcoxie), 5 to 8 ins. .07
Purple-leaved (Texas) Honeysuckle vine, 6 to 10 ins. .05
Variegated-leaved Honeysuckle vine (Gold Net), 10 to 12 ins., 2-yr. .06
*Pyracantha blossi, red berry (shiny leaves), 5 to 6 ins. .15
Pyracantha Kasan, hardy in Iowa. 5 to 6 ins. .07
Pyracantha lalandi, 5 to 6 ins. .05
Pyracantha pauciflora, shiny small leaves; dwarf, round, dense bush. Hardiest of all. 5 to 6 ins. .06

PERENNIALS

*Teucrium chamaedrys, 4 to 6 ins. .04

Shipment now or book your order for spring. Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant. Starred (*) items spring only.

McININCH GREENHOUSES
St. Joseph, Mo.

1-YR. SEEDLINGS	100	1000
Berberis thunbergi atropurpurea, 4 to 8 ins. (special permit)	$ 4.50	$ 40.00
Cornus mas, 6 to 8 ins.	7.50	....
Crataegus (cordata) phaenopyrum, 8 to 12 ins. and up	7.50	60.00
Liquidambar styraciflua, 4 to 8 ins.	9.00	75.00
Magnolia virginiana (glauca), 3 to 6 ins.	7.00	....
Myrica penaylvanica, 3 to 6 ins.	5.00	40.00
Quercus borealis, 6 to 8 ins.	6.00	50.00
Quercus borealis, 8 to 12 ins.	7.50	60.00
Quercus palustris, 6 to 8 ins.	6.00	50.00
Quercus palustris, 8 to 12 ins.	7.50	60.00
Syringa vulgaris, 6 to 8 ins.	3.50	30.00
Viburnum dentatum, 6 to 8 ins.	10.00	70.00
Viburnum wrighti, 6 to 8 ins.	10.00	70.00
2-YR. SEEDLINGS		
Abies lasiocarpa, 3 to 4 ins.	8.50	....
Acer rubrum, 10 to 15 ins.	5.00	45.00
Liquidambar styraciflua, 12 to 18 ins.	15.00	100.00
Picea abies (excelsa), 4 to 8 ins.	5.00	40.00
Picea engelmanni, 3 to 4 ins.	6.00	....
Picea pungens glauca, 3 to 6 ins.	5.00	40.00
*Pinus flexilis, 2 to 4 ins.	5.00	40.00
Pinus mughus (true dwarf Tyrolean), 3 to 4 ins.	5.00	40.00
Pinus mughus pumilo, 2 to 4 ins.	5.00	40.00
Pinus nigra, 4 to 8 ins.	4.50	40.00
*Pinus strobus, 4 to 6 ins.	5.00	40.00
Pinus sylvestris, 6 to 10 ins.	4.50	40.00
Pinus thunbergi, 4 to 8 ins.	6.00	50.00
Pseudotsuga taxifolia glauca, 4 to 8 ins.	6.00	50.00
Syringa vulgaris, 12 to 18 ins.	9.00	80.00
Tsuga caroliniana, 3 to 6 ins.	10.00	75.00

(Continued in next column)

(Continued from previous column)

3-YR. SEEDLINGS		
*Pinus flexilis, 3 to 5 ins.	6.50	....
Pinus nigra, 8 to 12 ins.	6.00	50.00
Taxus capitata, 4 to 8 ins.	15.00	125.00
TRANSPLANTS		
Helleborus niger, 3-yr.	45.00	....
Picea pungens glauca, 3-yr.	17.50	150.00
Sorbus aucuparia, 2-yr., 18 to 24 ins. and up	25.00	200.00
Taxus capitata, 4-yr., 6 to 10 ins.	35.00	300.00
Thuja occidentalis, 3-yr.	10.00	85.00
Thuja orientalis, 2-yr. understock	8.50	75.00
Tsuga canadensis, 4 to 8 ins.	15.00	125.00
Tsuga canadensis, 6 to 10 ins.	20.00	175.00
CUTTINGS, 2¼-IN. POTS		
HIGH SURVIVAL LINERS	10-25	100
Azaleas, palestrina, Sherwood Red	$3.00	$20.00
Berberis, julianae, thunbergi atropurpurea Crimson Pygmy, triacanthophora	3.50	25.00
Berberis verruculosa	3.50	25.00
Buxus, handsworthi, koreana, sempervirens	3.00	20.00
Chamaecyparis, cyano viridis, plumosa aurea, plumosa sulphurea	3.00	20.00
Cotoneasters, adpressa praecox, conspicua decidua	3.00	20.00
Cotoneasters, horizontalis, horizontalis perpusilla	3.00	20.00
Euonymus, alatus compactus, carrierei, japonicus, patens, vegetus	3.00	20.00
Ilex aquifolium Ciliata Major	5.00	40.00
Ilex cornuta burfordi	4.00	30.00
Ilex crenata, convexa, helleri, microphylla, rotundifolia	3.00	20.00
Ilex glabra	3.00	20.00
Ilex opaca (4 to 6 ins. in the following named varieties)	5.00	40.00

Arden	Hedge Holly
Cheerful	Joyce
Christmas Tide	Lake City
Clark	Mae
Delia Bradley	Manig
Farage	Merry Christmas
Femina No. 16	Osa

Ilex opaca Arden (fruited)	6.00	50.00
Ilex opaca mascula	5.00	40.00
Juniperus depressa plumosa	3.00	20.00
Juniperus, horizontalis Bar Harbor, horizontalis wiltoni glauca	3.00	20.00
Juniperus, pfitzeriana, pfitzeriana compacta, pfitzeriana nana	3.00	22.50
Juniperus glauca hetzi	3.00	20.00
Mahonia bealei	3.00	22.50
Oxydendron arboreum	3.00	22.50
Pieris, floribunda, japonica	3.00	20.00
Prunus laurocerasus schipkaensis	3.50	30.00
Pyracanthas, coccinea lalandi, coccinea, red; wyatti	3.00	20.00
Rhododendron wilsoni	5.00	40.00
Sarcococca hookeriana humilis	3.00	20.00
Taxus baccata repandens	3.50	25.00
Taxus cuspidata, aurea, capitata, compacta, densiformis	3.50	25.00
Taxus, cuspidata F. & F. compacta, cuspidata nana	3.50	25.00
Taxus media, browni, cliftoni, Halloran, hatfieldi, henryi, hicksi	3.50	25.00
Taxus media, Moon's columnaris, vermeuleni, wardi	3.50	25.00
Thuja occidentalis, globosa Howe type, globosa novum	3.00	20.00
Viburnums, bitchiuense, fragrans	3.50	25.00
2-YR. BEDDED TRANSPLANTS		
Azaleas, calendulacea, mucronulata, schlippenbachi	3.00	25.00
Ligustrum Dwarf Wintergreen	2.50	20.00
Rhododendron hybrid (red), Rhododendron smirnowi x hardy hybrid	3.50	30.00
Taxus, cuspidata densiformis, cuspidata F. & F. compacta	4.75	40.00
Taxus media, browni, Halloran, hicksi, Moon's columnaris	4.75	40.00
1-YR. GRAFTS, 2¼-IN. POTS		
Acer palmatum atropurpureum Bloodgood	8.50	75.00
Acer saccharum monumentale	10.00	90.00
Cornus, florida pendula, florida rubra Prosser	8.50	75.00
Cornus, florida rubra, kousa chinensis	7.50	65.00
Fagus sylvatica, asplenifolia, fastigiata, heterophylla	8.50	....
Fagus sylvatica riversi	7.50	65.00
Fagus sylvatica Tricolor	9.00	....
Hamamelis mollis	7.50	65.00
Ilex, opaca Cheerful, opaca Hookstraw	8.50	75.00
Juniperus scopulorum Blue Heaven	7.50	65.00
Magnolia soulangeana lennei	9.00	....
Magnolia rustica rubra	8.50	75.00
Magnolias, sieboldi parviflora, soulangeana, nigra	8.50	75.00
Parrotia persica	7.50	65.00
Tsuga canadensis sargenti pendula	7.50	65.00

HESS' NURSERIES
P. O. Box 128 Wayne, N. J.

BARBERRY

	Each	100	1000
Green, 2-yr. seedlings, lining-out	$0.03	$0.02½	
Green, 2-yr. seedlings, branched, 6 to 9 ins.	.03½	.03	
Red, 2-yr. seedlings, lining-out	.04½	.04	

DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

LINING-OUT STOCK

	Per 100 (EACH)	Per 1000 (EACH)
*Althaea coelestis (blue), 1-yr. grafts	$0.25	....
*Althaea Lady Stanley (semi-double white, pink center, 1-yr. grafts	.25	....
*Althaea Woodbridge (large single pink), 1-yr. grafts	.25	....
Cotoneaster divaricata, 1-yr. seedlings	.12½	$0.10
*Enkianthus campanulatus (cuttings), strong 2-yr., T, 8 to 12 ins.	.40	.35
*Euonymus vegetus, strong 2-yr., T, heavy	.30	.25
*Euonymus vegetus, strong 3-yr., T, heavy	.40	.35
*Fagus sylvatica riversi (River's Purple Beech), 2-yr. grafts, 12 to 18 ins.	1.75	1.50
*Forsythia Beatrix Farrand (NEW), 1-yr., T, softwood cuttings	.30	.25
*Forsythia Lynwood Gold, 1-yr., T, softwood cuttings.	.18	.15
*Forsythia Spring Glory, 1-yr., T, softwood cuttings.	.18	.15
*Hydrangea hortensis (hardy), deep pink, compact grower, 2-yr., T	.50	.45
*Hydrangea petiolaris (climbing Hydrangea), rooted cuttings, from 2½-in. pots	.40	.35
Ilex compacta, 2-yr., T	.40	.35
Ilex glabra compacta, 2-yr., T	.40	.35
Ilex latifolia, 2-yr., T	.40	.35
Ilex rountdifolia, 2-yr., T	.40	.35
Juniper, Andorra, 2-yr., T	.40	.35
Juniperus hetzi, 2-yr., T	.40	.35
Juniperus pfitzeriana glauca, 2-yr., T, from cuttings	.40	.35
*Leucothoe catesbaei, strong 3-yr., T	.40	.35
*Pieris japonica (Andromeda japonica), 3-yr., T, 9 to 12 ins.	.50	.45
Prunus maritima (Beach Plum), 1-yr., sdlgs., 12 to 18 ins.	.15	.10
Prunus tomentosa (Nanking Cherry), strong 1-yr. seedlings	.10	.07½
Taxus brevifolia (nana), 2-yr., T	.45	.40
Taxus cuspidata, spreading, 2-yr., T	.45	.40
Taxus intermedia, 2-yr., T.	.45	.40
Thuja woodwardi, 2-yr., T	.35	....
Viburnum tomentosum (true), 1-yr., T, softwood cuttings, 8 to 12 ins.	.25	.20
Viburnum wrighti, 3-yr. grafts, 2 to 3 ft.	1.25	1.00
*Vitex macrophylla (true), 2-yr. bedded, 18 to 24 ins.	.40	.35
*Weigela vanicekl, 1-yr., T, softwood cuttings	.25	.20

*ITEMS SUITABLE FOR MAIL ORDER TRADE AND CANNING.

See other listings under Azaleas, Maples, Helleborus, Taxus and Viburnums.

C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

LINING-OUT STOCK

Pfitzer Juniper, 6 to 8 ins., 1-yr., sand	$0.06
8 to 12 ins., 1-yr., field	.12
10 to 15 ins., 2-yr., field	.16
Ilex rotundifolia, rooted cuttings	.03
Ilex burfordi, rooted cuttings	.03
Nandina seeds, per lb.	1.00
Ligustrum lucidum, rooted cuttings	.02
Euonymus patens, rooted cuttings	.02
Abelia grandiflora, 8 to 12 ins., 1-yr., field	.04
Old English Boxwood, 2 to 3 ins., 1-yr.	.03
English Ivy (big-leaved), rooted cuttings	.02

Your patronage always appreciated.
E. F. DuBOSE NURSERY
Huntsville, Ala.

LINING-OUT STOCK

	Per 100	Per 1000
Cherry Laurel, 6 to 12 ins.	$3.00	$20.00
Cherry Laurel, 12 to 18 ins.	5.00	40.00
Magnolia grand., 4 to 8 ins.	6.00	50.00
Magnolia grand., 6 to 12 ins.	8.00	70.00
Gardenia fortunei, 12 to 18 ins.	5.00	40.00
Gardenia fortunei, 18 to 24 ins.	10.00	90.00
Gardenia Mystery, 12 to 18 ins.	5.00	40.00
Gardenia radicans, 6 to 8 ins.	5.00	40.00
stricta nana, 6 to 12 ins.	5.00	40.00
Live Oaks, 6 to 18 ins.	4.00	35.00
Wax Ligustrum, 6 to 12 ins.	4.00	30.00
Yaupon Holly, 4 to 8 ins.	4.00	35.00

L. H. BUTTER NURSERY
Forest Hill, La.

2-YR. LINERS FROM BEDS

	Each, 100	1000
Biota aurea nana	$0.22	$0.20
Ilex rotundifolia	.22	.20
Viburnum burkwoodi	.22	.20
Osmanthus americanus	.22	.20
Nandina domestica	.15	.10
Spiraea Anthony Waterer	.15	.10

NICK'S NURSERY, ANCHORAGE, KY.

LINING-OUT STOCK

See our display ad on page 43.

BLACKWELL NURSERIES
Semmes, Ala.

LINING-OUT STOCK—*Continued*

QUALITY LINERS
250 at 1000 rate

	Each, 100	1000
POTTED LINERS		
Cotoneaster apiculata, 8 to 12 ins., 2½-in. pots	$0.30	$0.27
Euonymus alatus, comp., established cuttings, 2¼-in.	.17	.15
Ilex burfordi, 6 to 9 ins., 2½-in. pots	.27	.25
glabra comp., 6 to 8 ins., 2¼-in.	.27	.25
opaca femina, 6 to 9 ins., 3-in.	.40	.35
rotundifolia, 6 to 8 ins., 2¼-in.	.25	.22
Junipers, Pfitzer, 6 to 8 ins., 3-in.	.30	.27
Hetz, 6 to 8 ins., 3-in. pots	.30	.27
depressa plumosa, 6 to 8 ins., 3-in. pots	.30	.27
Magnolia virginiana, 9 to 15 ins., 2½-in. pots	.30	.27
Prunus lauro. zabeliana, 2¼-in.	.25	.22
Taxus cuspidata, 6 to 8 ins., light 3-in. pots	.27	.25
cuspidata, 6 to 8 ins., 2½-in.	.25	.22
browni, 6 to 8 ins., 2½-in. pots	.25	...
hicksi, 6 to 8 ins., 2½-in. pots	.25	.22
Viburnum carlesi, 2½-in. pots	.25	.22
Viburnum juddi, 2½-in. pots	.27	.25
Viburnum burkwoodi, 2¼-in. pots	.25	.22
BARE-ROOT LINERS		
Euonymus alatus comp., 6 to 12 ins., branched	.20	.18
Chaenomeles (pink Flowering Quince), 12 to 18 ins.	.25	.22
Ilex rotundifolia, 6 to 8 ins., branched	.22	.20
Viburnum juddi, 8 to 12 ins.	.35	.30
Washington Thorn, seedling transplant, 2 to 3 ft.	.25	.20
3 to 4 ft.	.30	.25
4 to 5 ft.	.40	.35
SEEDLINGS, NURSERY-GROWN, 1-YR.		
Aesculus glabra, 6 to 10 ins.	.04	.03
Cercis canadensis, 12 to 18 ins.	.03	.02
2 to 3 ft.	.05	.04
3 to 4 ft.	.07	.06
Cornus florida, 6 to 8 ins.	.04	.03
8 to 12 ins.	.05	.04
Crataegus phaenopyrum (cordata) 4 to 6 ins.	.05	.04
Gleditsia triocan. inermes, 6 to 8 ins.	.03	.02
8 to 12 ins.	.04	.03
Quercus borealis, 6 to 12 ins.	.06	.05
12 to 18 ins.	.08	.07
18 to 24 ins.	.09	...
palustris, true, 4 to 6 ins.	.05	.04
6 to 9 ins.	.07	.06
9 to 12 ins.	.08	.07
12 to 15 ins.	.09	...
Ligustrum sinense (Chinese), 6 to 12 ins.	...	½c
12 to 18 ins.	...	.01

Packing free if cash included with order, otherwise packing at cost.

DONALD J. HILLENMEYER
1550 Meadowthorpe Ave. Lexington, Ky.

LINING-OUT STOCK

	Per 100	Per 1000
Abies concolor, 2-yr. seedlings, 4 to 8 ins.	$ 7.00	$ 65.00
Acer ginnala, 1-yr. seedlings, 6 to 9 ins.	7.00	60.00
Acer ginnala, 1-yr. seedlings, 9 to 12 ins.	8.50	75.00
Acer ginnala, 2-yr., T, FR, 15 to 18 ins.	20.00	150.00
Acer platanoides, 1-yr. seedlings, 4 to 6 ins.	5.50	45.00
Acer platanoides, 1-yr. seedlings, 6 to 9 ins.	6.50	55.00
Acer platanoides, 1-yr. seedlings, 9 to 12 ins.	7.50	65.00
Acer platanoides, 2-yr., T, FR, 15 to 18 ins.	16.50	130.00
Acer platanoides, 2-yr., T, FR, 18 to 24 ins.	18.50	150.00
Acer pseudoplatanus, 3-yr., T, FR, 4 to 5 ft.	60.00	500.00
Acer saccharum, 1-yr. seedlings, 6 to 9 ins.	6.50	55.00
Azalea hinodegiri, 3-yr., T, beds, 6 to 9 ins.	65.00	600.00
Berberis thunbergi, 2-yr., T, FR, 9 to 12 ins.	8.50	75.00
Berberis thun. atropurpurea, 2-yr., T, FR, 9 to 12 ins.	9.50	85.00
Cornus florida, 1-yr. seedl.	5.00	45.00
Cornus florida rubra, 1-yr. graft, beds	90.00	850.00
Cornus florida rubra, 3-yr. graft, TT, FR, 18 to 24 ins.	200.00	1750.00
Cotoneaster horizontalis, 3-yr. T, FR, 8 to 10 ins.	55.00	500.00
Cydonia japonica, 1-yr. seedlings, 9 to 12 ins.	5.50	45.00
Euonymus carrieri, 2-yr., T, FR, 6 to 9 ins.	35.00	300.00
Euonymus vegetus, 2-yr., T, FR, 6 to 9 ins.	35.00	300.00
Fagus sylvatica, 2-yr., T, FR, grafting, 6 to 9 ins.	12.00	100.00
Fagus sylvatica, 2-yr., T, FR, 9 to 12 ins.	15.00	140.00
Ginkgo biloba, 1-yr. seedlings, 4 to 6 ins.	8.00	75.00
Ilex aquifolium (Eng. Holly), 2-yr., T, beds, staked, 18 to 24 ins.	75.00	650.00
Ilex compacta, 2-yr. beds, 3 to 5 ins.	40.00	350.00

(Continued in next column)

(Continued from previous column)

Ilex convexa, 2-yr. beds, 6 to 9 ins.	40.00	350.00
Ilex Longfellow, 2-yr. beds, 6 to 9 ins.	40.00	350.00
Ilex Tennyson, 2-yr. beds, 6 to 9 ins.	40.00	350.00
Juniperus hetzi, 2-yr., T, FR, 9 to 12 ins.	45.00	400.00
Liquidambar styraciflua, 1-yr. seedlings, 4 to 6 ins.	7.00	65.00
Liquidambar styraciflua, 1-yr. seedlings, 6 to 9 ins.	8.50	80.00
Liquidambar styraciflua, 3-yr., T, FR, 2 to 3 ft.	75.00	700.00
Pieris japonica, 1-yr., T, beds	15.00	100.00
Pieris japonica, 2-yr., T, beds	35.00	300.00
Pieris japonica, 3-yr., T beds	45.00	400.00
Pieris japonica, pink; 3-yr., T, beds	55.00	500.00
Prunus ser. fug. veit. (Jap. Cherry), 3-yr., T, FR, 5 to 6-ft. whips	100.00	900.00
Quercus palustris, 1-yr. seedlings, 6 to 9 ins.	8.00	75.00
Quercus palustris, 3-yr., TT, FR, 18 to 24 ins., staked	50.00	450.00
Quercus palustris, 3-yr., TT, FR, 2 to 3 ft., staked	65.00	600.00
Sophora japonica, 1-yr. seedlings, 6 to 9 ins.	8.00	75.00
Sophora japonica, 1-yr. seedlings, 9 to 12 ins.	10.00	95.00
Sorbus aucuparia, 2-yr., T, FR, 18 to 24 ins.	25.00	200.00
Sorbus aucuparia, 2-yr., T, FR, 2 to 3 ft.	30.00	250.00
Sorbus aucuparia, 3-yr., T, FR, 5 to 6-ft. whips	100.00	900.00
Taxus cuspidata, upright seedlings, 2-yr., 4 to 6 ins.	12.00	90.00
Taxus cuspidata, upright seedlings, 2-yr., T, beds	20.00	180.00
Taxus densiformis, 2-yr., T, beds	30.00	250.00
Taxus densiformis, 3-yr., T, beds	45.00	400.00
Taxus hatfieldi, 2-yr., T, beds	30.00	250.00
Thuja nigra, 2-yr., T, FR, 9 to 12 ins.	45.00	400.00
Thuja woodwardi, 2-yr., T, FR, 6 to 9 ins.	45.00	400.00
Tilia cordata, 1-yr. seedlings, beds, 4 to 6 ins.	8.50	80.00
Tilia cordata, 1-yr. seedlings, beds, 6 to 9 ins.	10.00	95.00
Tilia cordata, 1-yr. seedlings, beds, 9 to 12 ins.	12.00	110.00
Tilia cordata, 1-yr. seedlings, beds, 15 to 18 ins.	15.00	135.00
Tilia cordata, 1-yr. seedlings, beds, 18 to 24 ins.	18.00	160.00
Tilia cordata, 3-yr., TT, FR, 4 to 5 ft., staked	75.00	650.00
Tsuga canadensis, 3-yr., T, beds, 6 to 9 ins.	30.00	250.00
Viburnum dilatatum, 1-yr. seedlings, 9 to 12 ins.	5.00	45.00
Wistaria sinensis, 1-yr. seedlings, grafting size	5.50	45.00
Wistaria sinensis, blue; 2-yr. grafts, T, FR	70.00	650.00

T—once transplanted; TT—twice transplanted; FR—field row.

BOULEVARD NURSERIES
Newport, R. I.
Phone VI 6-1263

LINING-OUT STOCK

	Per 100	Per 500
Taxus hatfieldi, 2-yr., T, 10 to 12 ins.	$30.00	$125.00
cuspidata, 2-yr., T, 12 to 15 ins.	25.00	100.00
thayerae, 2-yr., T, 10 to 12 ins.	30.00	125.00
densiformis, 2-yr., T, 10 to 15 ins.	30.00	125.00
hicksi, 2-yr., T, 10 to 12 ins.	30.00	125.00
Andromeda (Pieris japonica) 1-yr., T, 4 to 6 ins.	10.00	40.00
2-yr., T, 10 to 12 ins.	25.00	100.00
3-yr., T, 14 to 16 ins.	35.00	150.00

Write us for prices on quantities of 3000 or more.

SOWAMS NURSERY
82 Sowams Rd. Barrington, R. I.

LINING-OUT STOCK

Greek Juniper	Per 100	Per 1000
2-yr., 8 to 12 ins.	$15.00	$125.00
Hetz Juniper		
6 to 8 ins., 1-yr.	10.00	90.00
8 to 12 ins., 1-yr.	12.50	100.00
12 to 15 ins., 2-yr.	22.50	200.00
Irish Juniper		
8 to 12 ins., 2-yr.	15.00	125.00
12 to 15 ins., 2-yr.	17.50	150.00
Pfitzer compacta		
6 to 12 ins., 1-yr.	15.00	125.00
8 to 12 ins., 2-yr.	20.00	175.00
Pfitzer compacta (Nick's)		
6 to 8 ins., 1-yr.	15.00	125.00
8 to 12 ins., 1-yr.	20.00	175.00
8 to 12 ins., 2-yr.	22.50	200.00

Write for our complete price list.
BYERS NURSERY CO.
Chase, Ala.

Flowering Quince liners.
Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

LINING-OUT STOCK
NORTH ALABAMA GROWN

	Per 100	Per 1000
Andorra Juniper, 1-yr., field-grown, 6 to 12 ins.	$12.00	$100.00
Ashford Juniper, 1-yr., field-grown, 8 to 12 ins.	12.00	100.00
Fastigiata Juniper, 1-yr., field-grown, 8 to 12 ins.	12.00	100.00
Greek Juniper, 1-yr., field-grown, 6 to 10 ins.	12.00	100.00
Irish Juniper, 1-yr., field-grown, 8 to 12 ins.	12.00	100.00
Hetz Juniper, 1-yr., field-grown, 6 to 12 ins.	12.00	100.00
Hetz Juniper, 3-yr., X, field-grown, 12 to 18 ins.	35.00	300.00
Pfitzer Juniper, 2-yr., field-grown, 8 to 12 ins.	25.00	200.00
Pfitzer Juniper, golden; 2-yr., field-grown, 8 to 12 ins.	25.00	.....
Savin Juniper, 1-yr., field-grown, 6 to 12 ins.	12.00	100.00
Juniperus virginalis, 2-yr., field-grown, 8 to 12 ins.	25.00	.....
Von Ehron Juniper, 1-yr., field-grown, 8 to 12 ins.	12.00	100.00
Berberis julianae, 2¼-in. pots	17.50	150.00
Cotoneaster divaricata, 2-yr., XX, field-grn., 12 to 18 ins.	17.50	150.00
Euonymus patens, 2-yr., XX, field-grown, 8 to 12 ins.	17.50	150.00
Hypericum hidcote, 2¼-in. pots	15.00	125.00
Ilex burfordi, 2¼-in. pots	17.50	150.00
Ilex hetzi, 2¼-in. pots	17.50	150.00
Ilex helleri, 2¼-in. pots	17.50	150.00
Jasminum floridum, 2-yr., XX, field-grown, 12 to 18 ins.	17.50	150.00
Jasminum nudiflorum, 2-yr., XX, field-grown, 12 to 18 ins.	17.50	150.00
Nandinas, 2-yr., XX, field-grown, 6 to 8 ins.	17.50	150.00
Nandinas, 2-yr., XX, field-grown, 8 to 12 ins.	20.00	175.00
Biota aurea nana, 2¼-in. pots	17.50	150.00
Biota bakeri, 2¼-in. pots	17.50	150.00
Biota bonita, 2¼-in. pots	17.50	150.00
Biota excelsa, 2¼-in. pots	17.50	150.00
Biota pyramidalis, 2¼-in. pots	17.50	150.00
Biota woodwardi, 2¼-in. pots.	17.50	150.00

250 at 1000 rate. Free packing for cash with order.

ATHENS NURSERY CO.
Athens, Ala.

LINING-OUT STOCK

Bedded 1-yr. in the open.	100	1000
Ilex convexa	$20.00	$180.00
Ilex rotundifolia	20.00	180.00
Ilex hetzi	20.00	180.00
Juniperus pfitzeriana	20.00	180.00
Juniperus hetzi	20.00	180.00
Taxus andersoni	20.00	175.00
Taxus brevifolia	20.00	175.00
Taxus capitata, cutting-grown	25.00	225.00
Taxus capitata Adams, cutting-grown	25.00	225.00
Taxus canadensis stricta	16.00	150.00
Taxus cuspidata	17.50	150.00
Taxus hatfieldi	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus hicksi	17.50	150.00
Taxus intermedia	17.50	150.00
Taxus henryi	20.00	175.00
Taxus densiformis	20.00	175.00
Taxus vermeuleni	17.50	150.00
Taxus wardi	17.50	150.00
Taxus Moon's columnaris	20.00	175.00
Taxus browni	17.50	150.00
2-yr. bedded in the open.		
Ilex convexa, 6 to 9 ins.	$25.00	$200.00
Ilex rotundifolia, 6 to 9 ins.	25.00	200.00
Ilex hetzi, 6 to 9 ins.	25.00	200.00
Taxus Adams col., 12 to 15 ins.	50.00	450.00
Taxus Moon's col., 8 to 12 ins.	30.00	250.00
Taxus cuspidata, 6 to 9 ins.	30.00	250.00
Taxus hatfieldi, 6 to 9 ins.	30.00	250.00
Taxus cuspidata comp., 6 to 9 ins.	30.00	250.00
Taxus hunnewelliana, 6 to 9 ins.	30.00	250.00
Taxus browni, 6 to 9 ins.	30.00	250.00
Taxus intermedia, 6 to 9 ins.	30.00	250.00

TAXUS CAPITATA, SEEDLING-GROWN

	100	1000	10,000
1-yr. seedlings	$ 6.00	$ 50.00	$ 450.00
2-yr. seedlings	10.00	90.00	750.00
3-yr. seedlings	17.50	150.00	1250.00
4-yr. seedlings, transplanted, 6 to 10 ins.	30.00	250.00	2250.00

CORNUS FLORIDA (WHITE DOGWOOD)

Seedlings	100	1000	10,000
1-yr., No. 1 grade	$ 6.00	$ 50.00	$450.00
1-yr., No. 2 grade	5.00	40.00	350.00
1-yr., No. 3 grade	4.00	30.00	250.00
2-yr., No. 1 grade	12.50	100.00	900.00
2-yr., No. 2 grade	10.00	90.00	750.00

Special prices on large quantities.
Full list on demand.
VERKADE'S NURSERIES, WAYNE, N. J.

VIBURNUM LANTANA

Lining-out shrubs	100	1000
5000 1-yr., 4 to 6 ins.	$ 5.00	$45.00
700 2-yr., tr. pl.	12.00	....

JOHN BOS NURSERY, CLYDE, O.

LINERS OF THE BETTER KINDS
Write for price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

9,500 Active Nurserymen are in need of stock.
List your offerings in the American Nurseryman Classified Section.

QUALITY LINERS

Rooted cuttings	Per 100
Ilex convexa	$ 7.50
Taxus cuspidata	8.50
cuspidata compacta	11.00
browni	11.00
hicksi	10.00
sieboldi	11.00
andersoni	11.00
hatfieldi	11.00
intermedia	11.00
brevifolia	11.00
Thuja woodwardi (globe)	11.00
1-yr. transplants	
Euonymus vegetus	15.00
alatus compactus	15.00
Taxus browni	17.50
cuspidata	16.00
cuspidata compacta	10.75
cuspidata semi-up	17.50
hunnewelliana	19.00
hicksi	18.00
1-yr., 2¼-in. peat pots	
Taxus cuspidata	18.50
cuspidata compacta	19.75
cuspidata semi-up	19.50
Euonymus vegetus	20.00
Azalea mollis, 1-yr., tr. flats	6.00
2-yr. transplants	18.00
3-yr. transplants	26.00
Taxus cuspidata, 10 to 12 ins.,	
2-yr. transplants	30.00
8 to 10 ins., 2-yr. transplants	26.00

Rooted cuttings for spring will be shipped parcel post prepaid, to your door.
Packing free if cash accompanies order.
LINCOLN NURSERIES
R. D. 2 Grand Rapids 4, Mich.

LINING-OUT STOCK

We are now booking orders for fall and winter delivery of the following heavily rooted liners.

Buxus japonica	Ilex rotundifolia
Dwarf Euonymus	Viburnum
Gardenia fortunei	odoratissimum
Gardenia radicans	Ilex burfordi
Gardenia veitchi	Ligustrum lucidum
Gardenia stricta nana	Ilex East Palatka

Prices of above lining-out stock:

	Per 100	Per 1000
3 to 5 ins., rooted cuttings	$ 5.00	$ 40.00
4 to 6 ins., transplants	6.00	50.00
6 to 8 ins., transplants	10.00	80.00
8 to 12 ins., transplants	12.50	100.00

Baker Arborvitae	Photina glabra
Berckmans' Arborv.	Pittosporums
Globe Arborvitae	Buxus harlandi
Chamaecyparis allumi	Podocarpus
Osmanthus fragrans	Ilex bullata
Pfitzer Juniper	

Prices of above lining-out stock:

	Per 100	Per 1000
3 to 5 ins., rooted cuttings	$ 6.00	$ 50.00
4 to 6 ins., transplants	8.00	75.00
6 to 8 ins., transplants	12.50	100.00
8 to 12 ins., transplants	15.00	125.00

Book your orders early, for complete selection.
FLOWERWOOD NURSERY, INC.
P. O. Box 185 Cairo, Ga.
Phone 2-4021 or write.

MAGNOLIAS

ORIENTAL MAGNOLIAS
Soulangeana and soulangeana nigra.

Bed-grown liners	Per 100	Per 1000
8 to 12 ins.	$30.00	$250.00
12 to 18 ins.	35.00	300.00
18 to 24 ins.	40.00	350.00
Field-grown with buds		Each
2 to 3 ft., balled and burlapped		$1.25
3 to 4 ft., balled and burlapped		1.75
2 to 3 ft., bare-root		1.00
3 to 4 ft., bare-root		1.40

We advise shipment before February 1.
WELCH BROS. NURSERY, INC.
Wilmer, Ala.

Magnolia grandiflora, 4 to 8 ins., shipped in pots, 2¼-in. or removed, $15.00 per 100, 1-yr. seedlings for spring 1959, about 4 ins. high, $50.00 per 1000. Cash and no charge for packing.
Harwell Nursery, Van Buren, Ark.

ORIENTAL MAGNOLIAS
See our display ad on page 43.
BLACKWELL NURSERIES
Semmes, Ala.

MAPLES

NORWAY MAPLE
Straight trunks. Fine heads. Very fibrous roots.

	10-49	50-250
6 to 8 ft.	$ 2.00	$2.50
8 to 10 ft., 1 to 1¼-in.	4.05	3.25
9 to 11 ft., 1¼ to 1½-in.	5.30	4.25
10 to 12 ft., 1½ to 1¾-in.	7.00	5.50
11 to 13 ft., 1¾ to 2-in.	8.00	6.50

PRINCETON NURSERIES
Princeton, N. J.

COLLECTED SUGAR MAPLE
Straight, branched and heavily rooted.

	Each, 10	100
3 to 4 ft.	$0.12	$0.10
4 to 6 ft.	.25	.20
6 to 8 ft.	.35	.30
8 to 10 ft.	.80	.75
10 to 12 ft.	1.20	1.00

ADAMS NURSERY, MONTICELLO, IA.

JAPANESE RED MAPLE SEEDLINGS
(ACER PALMATUM ATROPURPUREUM)
Carefully selected, finest red Maple.
Well-hardened from open fied beds, liners and heavy potting grades in large quantities.

	Each per 100	250 or more
1-yr. (all red), 8 to 10 ins.	$0.22	$0.20
2-yr., X, light branched		
8 to 10 ins.	.33	.30
10 to 12 ins.	.38	.35
12 to 15 ins.	.45	.42
2-yr., X, heavy grade, branched transplants		
6 to 8 ins.	$0.43	$0.40
8 to 10 ins.	.48	.45
10 to 12 ins.	.55	.50
12 to 15 ins.	.65	.60
3-yr., XX, branched transplants, ready for 6-in. pots (salable)		
12 to 15 ins.	$0.80	$0.75
15 to 18 ins.	.95	.90
4 and 5-yr., well-branched, heavy grade		
10 to 12 ins.	$1.00	$0.95
12 to 15 ins.	1.25	1.18
15 to 18 ins.	1.60	1.50
18 to 21 ins.	2.00	1.90
21 to 24 ins.	2.75	2.60

Shipped dormant. Packed in sphagnum.
Late fall or early spring.
20 per cent deposit will reserve your order.
HUBBS NURSERIES
Route 130 Riverton, N. J.
Specializing in Japanese Maple seedlings.

RED JAPANESE MAPLE
Your inspection of the plants in foliage is cordially invited.

	Per 100 (EACH)	Per 1000 (EACH)
*Acer palmatum atropurpureum, selected types, strong 2-yr. grafts, 12 to 18 ins.	$1.50	$1.25
*Acer palmatum atropurpureum, strong 3-yr. grafts	2.00	....
*Acer palmatum atropurpureum BLOODGOOD, 2-yr. grafts, 12 to 18 ins.	1.75	....
*Acer palmatum atropurpureum OSSI BENI, 2-yr. grafts, 12 to 18 ins.	1.50	....
*Acer palmatum atropurpureum OSSI BENI, 3-yr. grafts	2.00	....

*ITEMS SUITABLE FOR MAIL ORDER TRADE AND CANNING.
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

MAPLES

	Each
NORWAY, straight trees, well-headed, bare-root	
1¾ to 2-in. cal.	$ 9.00
2 to 2¼-in. cal.	11.00
2¼ to 2½-in. cal.	13.00
2½ to 3-in. cal.	16.50
SUGAR, straight trees	
1¾ to 2-in. cal.	11.00
2 to 2¼-in. cal.	14.50

BULK'S NURSERIES
610 W. Montauk Highway Babylon, N. Y.

SUGAR MAPLE SEEDLINGS
(Acer saccharum)

6 to 8 ins.	$20.00 per 1000
12 to 15 ins.	40.00 per 1000
18 to 24 ins.	60.00 per 1000

Straight, well-rooted. Write for prices on larger sizes.
Over 50 years growing and selling the kind of trees that please.
LAKE VIEW FRUIT FARM
Route 5 Coldwater, Mich.

COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

For $4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the February 1 issue to reach us by January 9.

Forms for the February 15 issue will close January 23.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

HARD MAPLE

	Per 100	Per 1000
2 to 3 ft.	$10.00	$90.00
6 to 8 ft.	80.00	....

NEWLANDS NURSERY, Lake City, Minn.

Acers, saccharum and rubrum, root-pruned, field specimens, 2-in. to 12-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

NANDINAS

NANDINAS, READY FOR POTTING
NICE PLANTS, PLENTY OF ROOTS
2 to 5 ins., 1-yr. plants, $3.00 per 100, $25.00 per 1000; 7 to 10 ins., 2-yr. plants, $9.00 per 100, $70.00 per 1000; 3-yr. to 5-yr. plants, bare-root, $1.00 to $2.00 each.
PUREFOY HOTEL NURSERY
1 million Nandinas
Talladega, Ala.

PACHYSANDRAS

PACHYSANDRA TERMINALIS

	Per 100	Per 1000
1-yr. plants	$ 5.00	$42.50
2¼-in. pot-grown plants	10.50	95.00

HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, $6.00 per 100, $50.00 per 1000; $47.50 per 1000 for 5000 or more, including good packing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS
Strong rooted cuttings, $4.25 per 100, $40.00 per 1000.
DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS
1-yr., field-grown, $65.00 per 1000.
HILLCREST GREENHOUSES
Miller Park Franklin, Pa.

PEONIES

SURPLUS PEONIES, FALL 1958

	No. 1 (3-5 eyes)	No. 2 (2-3 eyes)
Baroness Schroeder	25	..
Duchess of Portland	50	..
Edulis Superba	120	80
Felix Crousse	170	..
Festiva Maxima	150	100
Francis Willard	80	..
Georgiana Shaylor	20	..
Karl Rosefield	..	25
Lady Alexandra Duff	140	75
L'Etincelante	60	60
Mary Brand	..	100
Mikado	90	30
Mme. de Verneville	140	75
Mons. Jules Elie	160	150
Mrs. Frank Beech	60	40
Nippon Beauty	40	..
Reine Hortense	150	60
Samuel Huches	70	25
Sarah Bernhardt	50	..
Solange	90	60
Souvenir L. Bigot	60	25
Taikoon	30	..
Therese	60	25
Tourangelle	90	60
Venus	250	180
Walter Faxon	30	20

Strong, healthy, cut from young block.
2 to 5-eye, 30c each; 2 to 3-eye, 25c each.
Will sell the entire lot for 5c less per plant.
ACT QUICKLY
HILLENMEYER NURSERIES
Lexington, Ky.

DOUBLE PEONY COLLECTION
Finest cut-flower varieties. 3 to 5 eyes.
100 3 to 5-eye roots per collection (40 red, 30 white and 30 pink), $29.50 per 100.
MIXED PEONIES, 1 to 3 eyes, 100, $15.00.
PEONIES, NAMED VARIETIES
list on request.
TREE PEONIES, GRAFTED PLANTS
Red, pink, white and purple.
1-yr. ....$10 per 10, $75 per 100, $650 per 1000
2-yr. .... 14 per 10, 110 per 100, 1000 per 1000
250 at 1000 rate. Named varieties.
GROWERS EXCHANGE
Farmington 8, Mich.

PEONIES
Adolph Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Duff, Marie Lemoine, Mons. Jules Elie, Reine Hortense.
3-yr.-old whole clumps, not divided, 6 eyes and up, $75.00 per 100, $700.00 per 1000; divisions, 3 to 5 eyes, $40.00 per 100, $350.00 per 1000.
VERKADE'S NURSERIES, WAYNE, N. J.

FERN-LEAVED AND TREE PEONIES
ATHA GARDENS, WEST LIBERTY, O.

PHLOX

HARDY PHLOX
Ask for our new listing on field-grown garden Phlox and Phlox subulata (Creeping Phlox). If interested in 5000 or more plants, ask for our special quantity discount.
WALTERS GARDENS
R. R. 2 Zeeland, Mich.

PHLOXES—*Continued*

IMPORTED PHLOX DECUSSATA
Finest European introductions, 10 each of 10 outstanding varieties, separately labeled, $15.00 per collection (100 field-grown plants).
GROWERS EXCHANGE
Farmington 8, Mich.

PIERIS

ANDROMEDA
(PIERIS JAPONICA)
One of the most beautiful broad-leaved Evergreens.

	Per 100	Per 1000
2 to 3-in., 1-yr., T.	$ 8.00	$ 75.00
3 to 5-in., 1-yr., T.	14.00	120.00
6 to 8-in., 2-yr., TT.	20.00	190.00

PLANE VIEW NURSERY
1355 W. Main Rd. Newport, R. I.

PRIVET

AMUR RIVER NORTH PRIVET
1-yr., 9 to 18 ins., 2 canes or more, $4.00 per 100, $35.00 per 1000.
Packing at cost.
These have been cut back twice, branched excellent. Plants are the best we have ever grown.
PAUL'S NURSERY
R. F. D. 3 Shelby, O.

Thousands of Amur River North Privet.

	Per 100	Per 1000
18 to 24 ins.	$3.00	$25.00
2 to 3 ft.	4.00	30.00
3 to 4 ft.	5.00	40.00

Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

PYRACANTHAS

PYRACANTHAS
These fine liners are just right for cans or the field!

	Per 100
PYRACANTHA EARLY RED	
8 to 12 ins., potted	$17.50
6 to 8 ins., potted	15.00
PYRACANTHA GRABER	
6 to 8 ins., potted	15.00
8 to 12 ins., potted	17.50
12 to 18 ins., bare-root	15.00
PYRACANTHA LALANDI	
6 to 8 ins., potted	15.00
8 to 12 ins., potted	17.50
12 to 18 ins., bare-root	15.00

These are all nice plants. Send us your trial order. GUARANTEED SATISFACTION!
COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

PYRACANTHA COCCINEA LALANDI
3-in. peat moss pots, well-grown and ready for the field or 1-gal. containers, $17.50 per 100, $150.00 per 1000.
BLACKWELL NURSERIES
Semmes, Ala.

RHODODENDRONS

GARDEN CENTER SPECIALS
Rhododendron catawbiense compactum

6 to 10 ins.	$ 60.00 per 100
10 to 12 ins.	100.00 per 100
12 to 15 ins.	175.00 per 100
15 to 18 ins.	225.00 per 100
Rhododendron carolinianum	
6 to 10 ins.	$ 75.00 per 100
10 to 12 ins.	100.00 per 100
12 to 15 ins.	125.00 per 100

HINDLA'S NURSERY, Bohemia, N. Y.

FIFTY THOUSAND
OWN-ROOT
RHODODENDRONS
A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons, if you prefer.
WELLS NURSERY
P. O. Box 141 Red Bank, N. J.
Phone SHadyside 1-0180

RHODODENDRONS, ROOTED CUTTINGS
Nurserymen's list of hardy hybrids.
Exotic semi-hardy list for fanciers.
Rare Asiatic species seedlings.
Free lists available now.
TUMBLE BROOK
RHODODENDRON NURSERY
17 Simsbury Rd. West Hartford, Conn.

RHODODENDRONS
HYBRID RHODODENDRONS
Landscape sizes
Different colors.
PARMENTIER'S ROSES
Grady St., Bayport, L. I., N. Y.
Phone Bayport 8-0811

RHODODENDRON MAXIMUM
Nursery-grown and collected. 2 to 7 ft. high. Well-shaped and symmetrical plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

ROSEBUSHES

Roses, finest quality plants reasonable. 112 varieties, standard and patented. Write.
Tate Nursery, R. 3, Tyler, Tex.

MINIATURE ROSES
Beautiful little darlings like miniature Hybrid Teas, seldom over 10 ins. tall. The plants we sell are own-root from 2½-in. pots.

Variety	Per 10	Per 100
Juliette, large crimson	$4.00	$35.00
Midget (pat. 466), rose-red	4.50	40.00
Tom Thumb (pat. 169), crimson.	4.50	40.00
Perla d'Alcanada, ruby-red	4.00	35.00
Peggy Grant, P.R.R., rose	4.00	35.00
Pink Joy (pat. 1378), pink, gold center	4.50	40.00
Patty Lou (pat. 1335), silvery pink	4.50	40.00
Pixie (pat. 408), tiny white	4.50	40.00
White Baby Star, white	4.00	35.00
Snowflakes, white	4.00	35.00
Presumida, like Talisman	4.00	35.00
Jackie, gold and cream	4.50	40.00
Baby Gold Star, gold	5.00	45.00

SPRING HILL NURSERIES CO.
Dept. AN-12 Tipp City, O.

ROSEBUSHES
For now or spring delivery.
Strong, extra heavy No. 1 grade.
Standard and new fine varieties.
Pink Peace, Sunlight, Torch Song, Montezuma, Ivory Fashion.
See our display ad elsewhere in this issue,
and write for complete list.
E. V. KIMBREW
Wholesale Rose Grower
Wills Point, Tex.

ROSEBUSHES
2-YR. PLANTS
Grown, graded and packed to perfection. 246 varieties and 12 different types to choose from.
WRITE TODAY FOR PRICES AND YOUR REQUIREMENTS NOW!
ROSEMONT NURSERIES
D. L. Thompson, Owner
Dept. AN Tyler, Tex.

ROSEBUSHES
Big, thrifty plants, guaranteed to please your most critical customers.
Priced to meet competition.
Shipped when you need them.
Standard and patent.
Bare-root and prepackaged.
A wide assortment to choose from.
Write, phone or wire for price list,
or better still come see for yourself.
MARTIN'S ROSE NURSERY
P. O. Box 155 Arp, Tex.
Phone UL 9-2191

ROSES ROSES ROSES
Dissatisfied with your Rose source?
Losing customers?
Ready to throw in the towel?
Cheer up and smile.
It'll be worth your while
to write for our list today.
No order too large or too small.
We personally take care of them all.
NEW LONDON ROSES
"The Rose Nursery"
P. O. Box 876 Overton, Tex.

ROSES
The BEST of the old,
the NEWEST of the new.
A. A. R. S. WINNERS! STARFIRE and IVORY FASHION. Naturally matured, carefully harvested and generously graded. Catalogs now available. Buy the best. "BUY KLYN'S."
GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

ARP ROSES
Ask the gardener who knows and wants the superior, the new, and you will stock Arp-grown vars. for 1959. 127 great Roses to choose from. Catalog free. Wholesale price list if you use letterhead or business card. Containers, formal dress or bare-root.
ARP NURSERY CO.
Box 3338-A Tyler, Tex.

ROSES
Our own field-grown Rosebushes for early winter. Standard var. No. 1, 50c. Patented var. available at fixed prices. Budded on seedlings with a fine root system, ideal for potting or home plantings.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, floribundas, polyanthas and climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.

ROSEBUSHES
Hybrid Teas, climbers, polyanthas and floribundas. Packaged or bare-root. Best quality in years. Price free on request.
LINDALE NURSERY
Box 141 Lindale, Smith Co., Tex.
Phone 18F2-W.

FOR SUPERIOR ROSEBUSHES
SEE "HAND the Rosebush Man." The best source of quality-grown Rosebushes at competitive prices. Satisfaction guaranteed.
Standard and patented varieties.
Bare-root Roses (Ind. tagged, optional).
Packaged Roses (non-waxed and waxed).
WRITE FOR 1958-59 PRICE LIST.
HAND ROSE FARMS
Dallas Hway. LYric 4-9088 Tyler, Tex.

ROSE STOCK

MULTIFLORA ROSE
Top quality plants for living fences and conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 3 mm.	8 to 15 ins.	$12.50
3 to 5 mm.	12 to 18 ins.	17.50
3 to 8 mm.	12 to 24 ins.	22.50
5 to 12 mm.	18 to 36 ins.	38.50

UNDERSTOCK. Straight shanked seedlings grown especially for understock. Nematode free. Expertly graded to suit the most particular.

4 to 6 mm.	$27.50 per 1000
2 to 4 mm.	17.50 per 1000

The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this winter or spring. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost.
FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

MULTIFLORA ROSE
Special, selected, thorny multiflora for budding. Tops are cut back to approximately 14 ins.

Caliper	Per 1000
6 to 8 mm.	$35.00
4 to 6 mm.	27.50
3 to 4 mm.	17.50
2 to 3 mm.	12.50

DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

SEEDS

SEEDS

Ligustrum japonicum	$1.00 per lb.
Ligustrum lucidum	1.00 per lb.
Nandinas	1.25 per lb.
Nandinas, 25 lbs. or over	1.00 per lb.
Callery Pear	7.50 per lb.

No charge for packing.
GILMORE PLANT & BULB CO.
Julian, N. C.

SEEDS
Ligustrums (true Amur River Privet), lucidum, japonicum; Nandina domestica, red-berried Pyracantha also orange-berried. All $1.00 per lb. F.O.B. our shipping point, La Grange, Ga. No C.O.D.
MOUNTVILLE NURSERIES
Mountville, Ga.

Ginkgo biloba (Salisburia adiantifolia) (Maidenhair Tree). A fine ornamental shade tree said to be the oldest tree known to civilization. New crop seeds, cleaned and ready to plant, $1.00 per lb., F.O.B. Order quickly.
Birmingham Nurseries, Birmingham, Ala.

MAGNOLIA KOBUS
Domestic seed.
High germination.
$5.00 per lb.
HESS' NURSERIES
P. O. Box 128 Wayne, N. J.

Write for Evergreen, Tree and Shrub seed list. Also write for list Formart containers, from small to large tub size.
Pine Mountain Wholesale Nurseries, Iron Mountain, Mich.

SEEDS, CLEANED and FLOATED

	Per lb.
Juniperus virginiana, Platt River, Neb.	$3.50
Juniperus scopulorum, S. D. or Colo.	3.50

FORESTRY SEED SERVICE, CUBA, KAN.

Ginkgo biloba seed, home-grown.
Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

SHRUBS AND TREES

SURPLUS STOCK	100
2000 Taxus, 2¼-in.	$15.00
3000 Juniperus hetzi	15.00
3000 Pfitzer Juniper	15.00
1000 Andorra Juniper	15.00
2-yr. Azalea mollis	12.00

CHARLES J. SANDERS
Monongahela-Bentleyville Rd.
Monongahela, Pa.

MORAINE LOCUST LINERS (Pat. No. 836).
We are a licensed grower. Have a good supply of branched liners in lots of 10 to 50 each. 5 to 6 ft., $2.75; 6 to 7 ft., $3.35; 7 to 8 ft., $4.50. Also have budded trees of some select strains of Thornless Honey Locust, at 50 per cent of above prices.
HILLENMEYER NURSERIES
Box 386 Lexington, Ky.

ROOTED CUTTINGS, 1-YR., BEDDED

	Per 100	Per 1000
Buxus sempervirens, 4 to 6 ins.	$10.00	$ 90.00
Ilex bullata, 4 to 6 ins.	10.00	90.00
Juniper, Andorra, 4 to 8 ins.	12.00	100.00
Pyracantha lalandi	10.00	....
Chamaecyparis squarrosa veitchi, 4 to 6 ins.	12.00	....
Chamaecyparis pisifera aurea, 4 to 6 ins.	12.00	....
Chamaecyparis lutescens, 4 to 6 ins.	10.00	....
Juniperus hetzi, 4 to 6 ins.	12.00	100.00
Juniperus pfitzeriana, 4 to 6..	12.00	100.00
Juniperus stricta	12.00	100.00
Pachysandras	4.00	35.00
Pyracantha lalandi, potted	15.00	....
Retinospora plumosa aurea, 6 to 8 ins.	10.00	90.00
Retinospora plumosa, 6 to 8...	10.00	90.00
Taxus brevifolia, 4 to 6 ins.	10.00	100.00
Taxus brevimedia	12.00	100.00
Taxus capitata, tips, 6 to 8 ins.	15.00	125.00
Taxus cuspidata, 4 to 6 ins.	12.00	100.00
Taxus hatfieldi, 4 to 6 ins.	12.00	100.00
Taxus hicksi, 4 to 6 ins.	12.00	100.00
Taxus intermedia	12.00	....
Taxus Moon's columnaris	12.00	100.00
Thuja globosa, 5 to 8 ins.	12.00	100.00
Thuja pyramidalis, 4 to 6 ins.	10.00	90.00
Thuja nigra, 5 to 8 ins.	10.00	90.00

2-YR. BEDDED

Taxus cuspidata	$25.00	$200.00
Taxus hicksi	25.00	200.00
Ilex crenata	20.00	150.00
Ilex bullata	20.00	150.00
Chamaecyparis cyano viridis, 4 to 6 ins.	20.00	....

1-YR. SEEDLINGS

Cornus florida	$ 5.00	$40.00
Taxus capitata	5.00	40.00
Chinese Chestnut, 18 to 24 ins.	10.00	75.00

2-YR. SEEDLINGS

Fagus sylvatica, 8 to 12 ins.	$10.00	$90.00
Chinese Chestnut, 18 to 30 ins.	15.00	....
Taxus capitata, 4 to 6 ins.	7.00	60.00

3-YR. SEEDLINGS, TRANSPLANTED

Taxus capitata, 5 to 8 ins.	$12.00	$100.00

4-YR. SEEDLINGS, TRANSPLANTED

Picea pungens glauca, 6 to 10 ins.	$12.00	$100.00
Tsuga canadensis, 5 to 8 ins.	10.00	95.00
Tsuga canadensis, 8 to 10 ins.	15.00	140.00
Tsuga canadensis, 10 to 12 ins.	20.00	190.00
Thuja occidentalis, 8 to 12 ins.	12.00	....
Taxus capitata, 6 to 10 ins.	15.00	....
Pinus strobus, 8 to 10 ins.	10.00	100.00
Leucothoe catesbaei, 8 to 12 ..	35.00	....

VAN DINE NURSERY
287 Berdan Ave. Preakness, N. J.

SHADE TREE LINERS

	100	1000
Acer rubrum, 2-yr. seedlings, 10 to 16 ins.	$ 5.00	$ 45.00
*Crataegus (cordata) phaenopyrum, 1-yr. seedlings, 8 to 12 ins. and up	7.50	60.00
Liquidambar styraciflua, 1-yr. seedlings, 4 to 8 ins.	9.00	75.00
2-yr. seedlings, 12 to 18 ins.	15.00	100.00
Quercus borealis, 1-yr. seedlings, 6 to 8 ins.	6.00	50.00
Quercus coccinea, 1-yr. seedlings, 6 to 8 ins.	10.00	75.00
*Quercus palustris, 1-yr. seedlings, 6 to 8 ins.	6.00	50.00
Sorbus aucuparia, 2-yr. transplants, 18 to 24 ins. up.	25.00	200.00

Items marked by asterisk (*) available in quantities of 10,000 or more. Special quotations on request.

HESS' NURSERIES
P. O. Box 128 Wayne, N. J.

COLLECTED, INSPECTED HARD MAPLE

	Each	Per 1000
2 to 4 ft.	$0.20	$175.00
4 to 6 ft.	.30	275.00
6 to 8 ft.	.50	450.00
8 to 10 ft.	1.00	850.00
10 to 12 ft.	1.50	1250.00

AMERICAN IRONWOOD (Ostrya virginiana)
6 to 8 ft. $1.00 each
8 to 10 ft. 1.50 each

HARDWOOD CUTTINGS

Shrubs: Cornus, Forsythias, Hydrangeas, A. N. Privet, Honeysuckles, Philadelphus, Spiraeas, Snowberries. Write for varieties and prices.

Evergreens: Taxus, Retinosporas and Junipers, $15.00 per 1000.

Cash in advance not necessary.

THE SCOTCH GROVE NURSERY
Scotch Grove, Ia.

CHINESE ELMS

	Per 100
4 to 5 ft.	$20.00
5 to 6 ft.	40.00
6 to 8 ft.	60.00
8 to 10 ft.	90.00

WASHAM NURSERY, SWEETWATER, Tex.

LOMBARDY POPLAR
2-yr., heavy branched.

4 to 5 ft.	40c each
5 to 6 ft.	50c each
6 to 8 ft.	60c each

Packing at cost.
PAUL'S NURSERY
R. F. D. 3 Shelby, O.

FLOWERING CRAB APPLES

Well-branched, good caliper, straight trees. These trees will please your customers.

Eleyi, red; Hopa, pink.

3 to 4 ft., 2-yr., br. grafts	$0.60 each
4 to 5 ft.	.75 each
5 to 6 ft.	1.00 each

Send for surplus list on Crab whips.

FLOWERING SHRUBS (tied 25's or 10's).

Forsythias, Spiraea vanhouttei, pink Weigelas, red Snowberries, Philadelphus (Mock Orange), pink Deutzias, 12 to 18 ins., 10c; 18 to 24 ins., 15c each.

Write for surplus list on Rosebushes, fruit tree seedlings, shade trees, hedges, etc. All priced reasonably, at "ECONOMY HEADQUARTERS." 4 per cent cash discount with order. Free packing.

THE GLOBE NURSERIES
Box 249 McMinnville, Tenn.

SHRUB LINERS

1-yr., hardwood cuttings, field-grown	100
400 Philadelphus virginalis	$10.00
500 Philadelphus Impr. Double	10.00
200 Golden Vicary Privet	10.00
400 Lodense Privet	8.00
750 Honeysuckle, zabeli	8.00
250 Honeysuckle, morrowi	8.00
200 Honeysuckle, fragrant	8.00
250 Spiraea vanhouttei	8.00
250 Spiraea Anthony Waterer	10.00
150 Spiraea froebeli	8.00
150 Blue Mist	10.00
200 Forsythia Spring Glory	10.00
375 Weigela vaniceki	15.00

Check with order, free packing.
HENRY NURSERIES, HENRY, ILL.

EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production.

Our cold storage permits late shipments. No charge for packing and boxing. Ask for catalog and wholesale planting lists.

Our ad, which appears on page 24 of this issue, shows a partial list of seedlings and transplants.

MUSSER FORESTS
Box 16AC Indiana, Pa.

Mountain-grown, dwarf Mahonia aquifolium, 1958 seed, from selected plants under 15 ins. Rock special. 100 seeds, $2.50; under 24 ins., $5.00 per oz. Regular dwarf selection, most plants under 24 ins., $3.50 per oz.; 4 ozs., $8.00; 1 lb., $25.00.

All seed from inspected U.S.D.A. areas. Fields are subject to temperatures minus 30 to plus 100 degrees. Rainfall 17 ins. Ideal broad-leaved Evergreens, any climate.

Plants from dwarf mountain-grown seed. 1-yr., $12.00 per 100; 2-yr., transplanted, $20.00 per 100, prepaid.

Cash with order. Stock may be returned in 5 days. Old established nursery, 28 years N. E. Washington.

Mayhan Nursery, Veradale, Wash.

ORNAMENTAL TREES

Crab Apples, 40 varieties; 1-yr. trees and limited number 2-yr. transplants. Descriptive booklet available.

Thundercloud purple-leaved Plum, 1-yr. and 3-yr., 6 to 8 ft.

Winter King Hawthorn, fruits ornamental all winter, 1-yr. whips.

American Holly, hardy named varieties, in sizes to 6 ft.

Taxus, Ilex rotundifolia, Ilex verticillata, large plants of Magnolia soulangeana and Cornus kousa chinensis seedlings.

SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd. Vincennes, Ind.
Phone 489-3

SHADE TREES

Quality nursery-grown shade trees from Fleming County, Ky., farm.

Bare-root	Each
Water Maple, 1¼-in.	$2.00
1½-in.	2.75
2-in.	5.00
Green Ash, 1¼-in.	2.25
1½-in.	3.00
Sycamore, 1¼-in.	2.00
1½-in.	2.75
2-in.	5.00

Donald Hillenmeyer—C. C. Patrick III
Mail address
HILL & PAT FARMS
1550 Meadowthorpe Lexington, Ky.

SILVER MAPLE, CHINESE ELM AND GREEN ASH

Northern-grown, transplanted.

	Per 30-100	Per 1000
1 to 1¼-in. cal.	$1.75	$1.50
1¾ to 1½-in. cal.	2.25	1.90
1½ to 2-in. cal.	2.75	2.50
2 to 2½-in. cal.	3.50	...

Wholesale list on request.
R. BRUMOND SMITH NURSERY
R. R. 2, Box 198 Muncie, Ind.
Phone AT 2-5144

CONTAINER-GROWN STOCK
See our display ad on page 43.
BLACKWELL NURSERIES
Semmes, Ala.

SURPLUS STOCK

10,000 Chinese Elm, excellent quality.

5 to 6 ft.	$ 50.00 per 100
6 to 8 ft.	75.00 per 100
8 to 10 ft.	100.00 per 100
10 to 12 ft.	150.00 per 100
1½ to 2-in. cal.	200.00 per 100

Write for our fall and winter price list. Shade trees and evergreens our specialty.
ROLLERS WHOLESALE NURSERY
Rogers, Ark.

NURSERY STOCK

TAXUS, RHODODENDRONS, JAPANESE MAPLE, AZALEAS, HOLLIES, MAGNOLIAS, DOGWOODS and other choice foundation planting stock in both finished and lining-out grades. Catalog upon request. Buy the best. "BUY KLYN'S."

GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

SHRUBS AND TREES

Norway Spruce, 2 to 3 ft.	$2.25
Norway Maple, 8 ft.	3.25
Azalea Hino, 24 ins.	2.50
Shade trees, 10 ft.	2.75

BILL WENTZELL, ELMER, N. J.

BERBERIS ATROPURPUREA NANA RED PIGMY

6 to 9-in. spread, B&B, $60.00 per 100.
Bare-root, $50.00 per 100.
Hardy Rhododendron hybs., many varieties, cutting-grown from liners up to 24 to 30 ins.
WEST OREGON NURSERY
3550 N. W. Saltzman Rd. Portland 10, Ore.

GINKGO BILOBA AUTUMN GOLD

3-yr. budded plants, averaging 30 ins. Buds from symmetrical, oval-upright, male tree, $1.50 each. Quantity discount.

SARATOGA HORTICULTURAL FOUNDATION
P. O. Box 308 Saratoga, Calif.

FLOWERING CRAB BUDS (PER 100)

	Each, 2 to 3 ft.	3-4 ft.	4-5 ft.	5-6 ft.
Almey	$0.50	$0.75	$1.00	$1.10
Eleyi, Hopa, Swathmore	.35	.50	.65	.85

CHOCOLA NURSERY
Winchester, Tenn.

CRAPE MYRTLE WILLIAM TOOVEY

The best red.
18 to 24 ins., 45c
2 to 3 ft., 55c
CHASE NURSERY CO.
Chase, Ala.

EUONYMUS ALATUS

18 to 24 ins.	30 to 36 ins.
24 to 30 ins.	36 to 48 ins.

Write for quotations on quantity desired.
L. P. BRICK NURSERIES
Painesville, O.

SHRUBS AND TREES

See our Classified ad in this issue under LINING-OUT STOCK.
T. G. OWEN & SON, INC.
Columbus, Miss.

ROOTED CUTTINGS

	100	1000
Philadelphus aureus	$10.00	$ 90.00
Lythrum Mordens Pink, 2000		
1-yr., No. 1	12.00	100.00

NEWLAND'S NURSERY, Lake City, Minn.

Cherry Laurel liners, Prunus caroliniana and Prunus laurocerasus schipkaensis, zabeliana, macrophyllum and officinalis.

Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

Quercus rubra (Red Oak), root-pruned, field specimens, 2 to 8-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

TAXUS

EXTRA!

TAXUS DEMAND GROWING.

Why not meet this demand by sending us your Taxus or other cuttings to be rooted? Details and prices upon request.

RICHARDSON NURSERIES, INC.
53947 Fir Rd., R. 1 Granger, Ind.

STRONG UNROOTED CUTTINGS

	Per 1000
Taxus capitata (strong leaders)	$35.00
Taxus cuspidata	20.00
Taxus hicksi	30.00

BULK'S NURSERIES
610 W. Montauk Highway Babylon, N. Y.

VIBURNUMS

VIBURNUM CARLESI COMPACTA (NEW).

This is a compact form of Viburnum carlesi with dark green leaves and buds up very readily.

	Per 100 (EACH)	Per 1000 (EACH)
Strong 2-yr. grafts	$1.50	$1.25

C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

VIBURNUMS—*Continued*

Viburnum liners: Viburnums, carlesi, chenaulti, juddi, rhytidophyllum and tomentosum plicatum.
Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

VIBURNUM ODORATISSIMUM
Clean and healthy
2¼-in. pots. $15.00 per 100.
COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

VINES

LARGE-FLOWERING CLEMATIS VINES
1-yr. container grown, 75c each.
Comtesse de Bouchaud, pink
Ernest Markham, red
Ville de Lyon, red
Montana rubens, pink; 36 ins.

FOUR STAR NURSERY
8215 238th St., S. W.
Edmonds, Wash.

SUPPLIES

BURLAP

NEW BURLAP
In bolts or rolls of 100 to 125 yds.
HEAVYWEIGHT BURLAP

Width	In bolts	On rolls
36 ins.	22½c	24½c per yd.
40 ins.	23½c	25½c per yd.
45 ins.	25½c	27½c per yd.
48 ins.	27½c	29½c per yd.
54 ins.	31c	33c per yd.
60 ins.	34½c	36½c per yd.
72 ins.	40½c	42½c per yd.

BURLAP EROSION CLOTH

40 ins.	19c	21c per yd.
57 ins.	23c	25c per yd.

GREEN BURLAP
36 ins. ..... 37½c per yd.
All prices are net F.O.B. New York.
Minimum order 1 bolt or 1 roll. Orders of 3 or more freight prepaid east of the Mississippi. When ordering specify rolls or bolts.
LEWIS INTERNATIONAL CO.
(Sundries Dept.)
666 Clinton Ave. Newark 8, N. J.

HOLLAND BURLAP squares, for all needs. VIKING CLOTH, a film embedded Burlap, in squares, used instead of tarpots, and in 50-yard rolls, 5 ft. wide, $38.00.
HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES

LIGHTNING SERVICE
ON
FRESHLY IMPORTED
JAPANESE BAMBOO CANE STAKES
from
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices
and generous quantity discounts.
McHUTCHISON & CO.
695 Grand Ave. Ridgefield, N. J.
2505 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES
For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1313 W. Randolph St. Chicago 7, Ill.

OUTDOOR BAMBOO STAKES
All sizes for immediate delivery.
Ask for our Nursery Supply List.
HALF MOON CO., Box 27A, Plainfield, N. J.

Quick — Convenient — Cheap!
Selling through the Classified Ads
of the American Nurseryman.

COLOR TAGS

COLOR PICTURE TAGS
Quick shipments. Reasonably priced.
Shrubs, shade, fruits, vines, flowering trees, etc. Write for price list.
GLOBE NURSERIES
Box 249 McMinnville, Tenn.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb

CONTAINERS

EGG CANS
By car or truckloads.
Carloads, unpainted, unpunched, 8c to 10c at source; freight to be added. Approximately 7000 per carload.
Also available at Scottsville at these prices: Unpainted, unpunched, 17c; painted and punched, 22c.
Approximately 2000 per truckload. Prices subject to market changes.
All prices NET CASH.
VERHALEN NURSERY CO.
Scottsville, Tex.

KNOCKED-DOWN CANS
(Pat. No. 2833087)
Shipped and stored flat.
New tin sheet metal cans, now available in 3 sizes, to enable nurserymen and retailers to sell roots with their stock. Grow in tin cans that will eliminate your packaging and replacement problems.
Write for prices and sizes.
BENSON & WEDDING
Knocked-Down Cans
16730 Sayre Ave. Tinley Park, Ill.

FERTILIZERS

PETERS SPECIAL
CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.
SOLUBLE FERTILIZERS
21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, $6.50 per 25-lb. bag.
$22.00 for 4 25-lb. bags.
20-20-20 General Purpose Feed
$7.00 per 25-lb. bag, $24.00 for 4 25-lb. bags.
LONG-LIFE FEEDS
13-6-6 Organic Special Du Pont Uramite Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.
$7.50 per 25-lb. bag, $28.00 for 4 25-lb. bags.
Du Pont Uramite, 38 per cent nitrogen from methyl-urea, $12.00 per 50-lb. bag.
Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.
FRITTED POTASH
Contains 32 per cent K2O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. $9.00 per 25-lb. bag; $8.00 per 25-lb. bag for 4 to 39 bags.
Write for complete price list.
Freight prepaid to any state in the Union with the exception of Alaska, on all orders totaling 300 lbs. or more. West of the Mississippi, add 2c per lb. on 300 lbs. and over, prepaid shipments. F.O.B. Allentown, Pa., on all orders less than 300 lbs.
ROBERT B. PETERS CO.
323 North 15th St. Allentown, Pa.

Small Ads Do Great Things in the
American Nurseryman Classified Section.

FLATS

CYPRESS FLATS
Shipped from Williamston, N. C.
WHITE CEDAR FLATS
Shipped from Cook, Minn.

Order by No.	Price Per 100	Cedar Wt. per 100	Cypress Wt. per 100
No. 1, 14x20x2¾-in.	$27.00	320	400
No. 2, 14x20x3¾-in.	31.50	400	500
No. 3, 12x16x2¾-in.	20.75	260	325
No. 4, 12x16x3¾-in.	24.50	275	345
No. 5, 14x16x2¾-in.	23.25	275	345
No. 6, 14x16x3¾-in.	27.50	290	365
No. 7, 15x22¾x2¾-in.	30.75	380	475
No. 8, 15x22¾x3¾-in.	35.50	425	535
No. 9, 11¼x22¾x2¾-in.	25.00	320	400
No. 10, 11¼x22¾x3¾-in.	29.00	400	500
No. 11, 14x16x5-in.	32.75	450	560
No. 12, 5x11x5-in.	16.75	160	200
No. 13, 5x16x5-in.	19.00	215	270
Plant boxes, 5x8½x2¾-in.	5.50	45	60

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)
All other sizes quoted on request.
Above prices apply to both Cypress and Cedar.
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.
The above sizes are inside measurements. Bottoms and sides are ⅝-in. thick and ends are ¾-in. thick. All material surfaced on one side.
Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: $1.00 setup charge, plus ¾c per end piece for the first 1000 ends; ½c per end thereafter.
Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamston, N. C.
Shipped knocked-down in units of 25. F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.
H. C. HILL & SONS
Manufacturers of flats, boxes, wood turnings and specialties.
Phone NOrth 6-3348, Cook, Minn.
Phone SWift 2-4127, Williamston, N. C.

Watch Your Results From
American Nurseryman Classified Ads.

REDWOOD FLATS, K.D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, $38.00 per 100.
1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., $3.50 per bdl.
50 pcs. to bundle, 5 ft., $4.50 per bdl.
50 pcs. to bundle, 6 ft., $5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, YOUNGSTOWN 2, O.

HEATERS

LP AND NATURAL GAS UNIT HEATERS
Best for plastic houses. Quick delivery. Prices start as low as $167.00. Write for information on all unit heaters.
ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

LABELS

DAHLIA OR TREE LABELS

	Priced per carton Plain	Painted
3⅛x⅝ ins., notched, not wired	$3.00	3.60
3½x⅝ ins., wired (copper)	3.95	4.90

POT LABELS

4x⅝ ins. (cartons 1000 each)	3.95	4.60
5x⅝ ins. (cartons 1000 each)	4.30	5.10
6x⅝ ins. (cartons 1000 each)	4.70	5.80

	Priced per carton Plain	Painted
8x⅝ ins. (cartons 500 each)	$3.60	$4.30
10x⅝ ins. (cartons 500 each)	4.20	5.10

GARDEN STAKES

8x ⅞ ins. (cartons 250 each)	3.00	3.60
10x ⅞ ins. (cartons 250 each)	3.30	3.90
12x1⅛ ins. (cartons 100 each)	2.00	2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.
Catalog on request.
"We ship same day."
YOHO & HOOKER, YOUNGSTOWN 2, O.

ORCHID SUPPLIES

ORCHID SUPPLIES

Hoof and Horn Meal	100 lbs.,	$14.50
Blood Meal	100 lbs.,	14.50
Fish Meal	50 lbs.,	14.50
Urea Crystals	50 lbs.,	14.50
Ammonium Nitrate	80 lbs.,	7.50

Priced F.O.B. Houston, Tex.
WRIGHTWOOD FLORAL CO., INC.
1420 Wrightwood Ave. Houston 9, Tex.

PEAT MOSS

"BRODLEAF" Holland Peat Moss. Carlots. Standard 7½ cft. Gardener 6 cft. and Halves. Jumbo for growers, two bales equal three.
HALF MOON CO., Box 27A, Plainfield, N. J.

PLANT FOOD

CHLOROMONE
Liquid plant hormone.

4-oz. jar	$ 3.00
Case of 12	21.60
Case of 24	36.00
Gallon tins	42.50

HESS' NURSERIES
P. O. Box 128 Wayne, N. J.

PLASTIC FILM

POLYETHYLENE FILM.
Sun-resistant black for mulching. .0015 mil.
3 ft. x 500 ft. ..... $ 7.70 per roll
3 ft. x 1000 ft. ..... 15.40 per roll
Natural transparent only.
.002 mil., all rolls 200 ft. long.
4 ft. 2 ins. x 200 ft. ..... $ 6.00 per roll
8 ft. 4 ins. x 200 ft. ..... 12.00 per roll
Natural transparent and sun-resistant black.
.004 mil., all rolls 100 ft. long.
3 ft. x 100 ft. ..... $ 5.00 per roll
4 ft. x 100 ft. ..... 7.00 per roll
6 ft. x 100 ft. ..... 11.00 per roll
8 ft. x 100 ft. ..... 15.00 per roll
Minimum order 4 rolls. Write for low prices in quantity orders.
Other sizes and mil. weights available up to 40 ft.
Phone BAldwin 3-8277.
DAYTON NURSERY AND GARDEN SALES
P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM
Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.
.004 mil., all rolls 100 ft. long.
3 ft. wide by 100 ft. long ..... $ 6.00 per roll
4 ft. wide by 100 ft. long ..... 8.00 per roll
6 ft. wide by 100 ft. long ..... 12.00 per roll
8 ft. wide by 100 ft. long ..... 16.00 per roll
Other sizes available up to 20 ft. wide.
Send $1.00 for liberal sample
4 ft. x 10 ft., postpaid.
Special deal for greenhouse construction.
5 rolls to 9 rolls, 25 per cent discount.
10 rolls or more, 33⅓ per cent discount.
"We ship same day."
YOHO & HOOKER
520 Williamson Ave. Youngstown 1, O.

VIKING-CLOTH, a film embedded in Burlap.
POLLY-FILM, all in Sheets and Rolls.
HALF MOON CO., Box 27A, Plainfield, N. J.

XUM

POLYETHYLENE FILM.
2 mil. in 200-ft. rolls, 36 ins. wide, $5.96; 54 ins. wide, $8.79; 108 ins. wide, $17.34.
4 mil. in 100-ft. rolls, 36 ins. wide, $6.18; 54 ins. wide, $9.12; 126 ins. wide, $20.20.
5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available.
We pay freight if check is with order.
ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

PLASTIC GREENHOUSES

PLASTIC GREENHOUSES
Quonset type, including ribs, galvanized wire and Visqueen cover. Can be set up in one day. 16 ft. x 47 ft. 6 ins., $285.00; 16 ft. x 97 ft. 6 ins., $545.00. Gables and foundation not included. Freight prepaid if check is with order.
ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

SPHAGNUM MOSS

Fresh, clean sphagnum moss, write or phone City Point 133 for our low prices on wirebound bales in truckloads or carlots.
Pure Sphagnum Moss Co., City Point, Wis.

NO. 1 SPHAGNUM MOSS
Large burlap bales, long fibered, clean, firmly packed; bale, $1.20.
JOSEPH JAMROS, CITY POINT, WIS.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.
Warrens Moss Co., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES
50 pieces to bundle.
1x1-in.—3 ft., pointed.....$3.00 per bundle
1x1-in.—4 ft., pointed..... 3.50 per bundle
1x1-in.—5 ft., pointed..... 4.50 per bundle
1x1-in.—6 ft., pointed..... 5.50 per bundle
1x1-in.—7 ft., pointed..... 7.00 per bundle
These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."
WE SHIP SAME DAY!
YOHO & HOOKER
Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL
GALVANIZED tree guying WIRE,
HOSE for guy wire PADDING.
Prices and samples sent on request.
SCHUPP SUPPLY CO., WILMETTE, ILL.

THE BEST FOR LESS!
13-26-13 analysis & secondary elements.
HY-GRO SOLUBLE FERTILIZER
Now 50 lb. poly-lined bag at 100-lb. price. 50 lb. for
$10.00
50 LBS. Soluble HY-GRO Plant Food 13-26-13 The Square Meal For Growing Things
at your wholesaler or
Plantabbs Corp., Balto 1, Md.

PRINTING FOR NURSERYMEN
Better Quality—Lower Prices
Prompt Service
Moisture-resistant labels, plain or printed, single or sheets for typewriter use. Wide variety, lowest prices.
Shipping tags, color broadsides, catalogs, price lists, order blanks, order books, stock records, gummed labels, blotters, salesbooks, distinctive stationery
Letterpress and offset printing. Write for free samples and prices.
THE TINGLE PRINTING CO.
SINCE 1907 PITTSVILLE, MD.

NURSERY MANUAL, by L. H. Bailey. Standard work on propagation, 470 p. (1920) **$6.75.** American Nurseryman Chicago 4.

OBITUARY

A. B. Cunningham

A. B. Cunningham, 86, owner and operator of Cunningham Gardens, Inc., Waldron, Ind., died recently in his home near Waldron.

A charter member of the Indiana Association of Nurserymen, Mr. Cunningham was also a member of the American Association of Nurserymen and of the Waldron Methodist church.

Survivors include the widow, Mrs. Carrie Cunningham; two sons, W. E. Cunningham and Wilbur Cunningham, both of Waldron; three daughters, Mrs. Dorothy Ayer, Rockport; Mrs. Marie Becker, La Crescenta, Calif., and Mrs. Bernice Young, Shelbyville, Ind., and eight grandchildren. N. C. T.

Fritz Huber

Fritz Huber, owner and operator of Jennings Nursery Co., Inc., Jennings, La., succumbed after a brief illness December 2, 1958, at the age of 72. He had been active in the management of his nursery for over 50 years.

He is survived by a son, Fritz, Jr.; a daughter, Mrs. Bill Maher; two brothers, George and Herman, and two sisters, Mrs. P. Meisner, Jennings, and Mrs. K. Abersole, Miami, Fla. Mrs. Huber died suddenly in late October.

Mr. Huber was widely known for the high-quality specimen plants that he produced at all times. His presence will be missed at conventions and other nurserymen's meetings. He was a past honoree of the Louisiana Association of Nurserymen and an honorary life member of the group and a member of the Texas Association of Nurserymen and of the American Association of Nurserymen. J. A. F.

Julian F. Detmer

Julian F. Detmer, founder of the Detmer Nurseries, Tarrytown, N. Y., died at his home there November 27, at the age of 93. Mr. Detmer was also the owner of an arboretum cultivated on his 140-acre estate at Tarrytown.

Born at Cleveland, O., in 1865, Mr. Detmer was active in the woolen business at Cincinnati and Columbus before going to Tarrytown in 1900. He formed his nursery there for the purpose of helping to improve the community by making fine shrubs and trees available. The complete cultivation of his estate took 40 years;

PREMIER
the proudest name in
PEAT MOSS

There's a reason why more Premier is sold than any other brand
Plastic Bales poly-laminated inside and outside
Big Value Bales
The fast selling line
PREMIER PEAT MOSS

Premier quality is so high... it commands a higher price

-yet you pay no more

1st—in Quality—Premier Sphagnum Peat Moss is *seasoned, substantial, durable* — yet is *spongy, porous, super-absorbent.* Stands up better, lasts longer.

1st—in Packaging—Premier's colorful, striking packages are eye-catching and sales building.

1st—in Profits—Premier sells fast at a high mark-up. You get a better price, better turnover and better profits with Premier—yet YOU pay no more.

Sell Premier—the finest Canadian and European Peat Moss—from Premier's world-wide resources. Write for details now.

PREMIER PEAT MOSS CORP.
535 Fifth Ave., New York 17, N. Y.

PREMIER
Sphagnum
PEAT MOSS

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: $4.50 per inch, each insertion. **Liners: 40c** line; minimum order **$4.00.**

HELP WANTED

Two qualified landscape job superintendents. Must be capable of laying out and reading landscape designs. Must know plant material and be capable of handling men. Must have had experience in supervision. Job is located in medium-sized city in Ohio. Salary $5,000 to $7,000 per year plus commission. Job is open now or spring, 1959. Full year-round employment with generous vacation and hospitalization plan included. Applicants with experience in industrial and commercial landscaping as well as state highway seeding should apply by sending letter, including past experience, references and a picture which will not be returned. Please write Box 541, care of American Nurseryman.

HELP WANTED

General manager to run medium-sized garden center in midwestern city. Must have thorough background and knowledge of all plant material, selling techniques and management problems. Must be capable of handling employees. Must be capable of taking over complete control of the operation. 8 months' job. Salary $5,000 to $7,000 per year plus commission based on a percentage of the profit. Applicants please send a letter, including past experience, references and a picture which will not be returned. Position will be open March 1, 1959. Please write Box 540, care of American Nurseryman.

HELP WANTED

Aggressive young man, age 30 or over, experienced in nursery work. Job is in stock control, with responsibilities in wholesale selling and buying. Good future assured for man of good judgment. State qualifications. Reply to:

NEOSHO NURSERIES CO.
Neosho, Mo.

HELP WANTED

PROPAGATOR

Large grower of coniferous and broad-leaved evergreens needs experienced propagator to take complete charge of propagation department. Please state qualifications and give references in reply. Position open because of death of Mr. Peter Zorg.

CARTWRIGHT NURSERIES
Collierville, Tenn.

HELP WANTED

Qualified man to solicit and make retail calls on new homes for landscaping for an established nursery and garden center in central Illinois. Salary plus commission. Experience not necessary, but helpful. In replying, please state marital status, age, education and experience. Reply to Box 552, care of American Nurseryman.

HELP WANTED

Manager with education and experience in horticulture and sales for expanding Wisconsin wholesale nursery. Will furnish attractive, private living quarters near nursery for single man or family. Write Box 549, care of American Nurseryman, giving education, experience, references and other pertinent information.

HELP WANTED

Manager for large, up-to-date garden center, located on owner's 200-acre nursery on busy highway. Excellent potential with prosperous, fast-growing suburbs. Applicant must be thoroughly experienced in buying and merchandising of nursery stock and allied lines. Truly a rare opportunity for the right man. Correspondence strictly confidential. Reply to Box 543, care of American Nurseryman.

HELP WANTED

SALES POSITION OPEN

Medium-size midwestern grower-nurseryman has opening for wholesale salesman. Old, established firm growing a full line of ornamentals. Now concentrating on Great Lakes area, but need more coverage. Salary plus bonuses—no commissions. Send resume to Box 523, care of American Nurseryman.

FOR SALE

OLD-ESTABLISHED NURSERY

Northwest Chicago suburban area. Large wholesale-retail with 25½ acres on main road in the heart of 4 important Chicago suburbs. Unlimited potential. Appraised value of land, buildings, nursery stock, inventory, trucks, tractors and equipment valued in excess of $200,000. Lovely 6-room modern home. Owners retiring; offering this very profitable business, lock, stock, and barrel for quick sale at $148,500. Fast action would be advisable. Gayle Whitney for appointment to inspect.

BAIRD & WARNER
11 S. State Rd.
Arlington Heights, Ill.
Phones:
CLearbrook 3-1856; SPring 4-5848

FOR SALE

Old, established nursery, garden store and landscape business located in Seattle, Wash., on a main traffic street and surrounded by the finest residential areas. Climatic conditions insure year-round operation. With the present growth of the city and the coming world fair it should prove a wonderful opportunity. Present owners must sell on account of ill health. Address replies to Box 553, care of American Nurseryman.

HELP WANTED

Working foreman for nursery. Must have experience in planting and growing. Location near Smyrna, Del., nursery on Delaware Bay. Write:

VOGEL'S NURSERY
Box 588 Wilmington, Del.

SITUATION WANTED

Sales representative covering east coast states wants to represent Pacific coast firm specializing in shade tree whips, fruit understocks, etc. Will be at Chicago. Write Box 548, care of American Nurseryman.

SITUATION WANTED

Grounds superintendent or assistant for college, estate, etc. Prefer location southeast or eastern U. S. College trained and experienced. Write Box 551, care of American Nurseryman.

FOR SALE

25-acre nursery, 12 miles from Dayton. Good location on main Highway 49. All-modern brick home. About 70,000 evergreens, all sizes. Reason for selling: Old age and failing health.

BILLY WEST
Brookville, Ohio

WANT ADS

Display: $4.50 per inch, each insertion.

Liners: 40c line; minimum order **$4.00.**

FOR SALE

Established garden center on well-traveled road, close to 4 highways in one of the fastest-growing home-building cities. Population of a half-million people. Building constructed of brick, concrete and steel, 30x90 ft., with black-top parking area on 100x200-ft. lot. Building well lighted, with oil heat, landscaped with shrubbery. Good clientele. Retail store selling garden supplies, fertilizer, tools, plants, lawn mowers, insecticides, etc. Can be purchased at 60 per cent of the actual value of the property. Good opportunity for 2 young men with background in entomology and horticulture. Present owners wish to retire.

RALPH HANNA & ASSOCIATES
P.O. Box 7014 Norfolk 9, Va.

FOR SALE

Buyers for nurseries of all types in any part of the country are reached through an ad in this department, the trade's real-estate and business market. The cost of an ad this size is $6.75.

FOR SALE

4-acre nursery, $8500. 1 acre in show gardens. Located on good highway. 1 bedroom house. All-year spring; recorded water rights. Young orchard.
RUTH WOLFE
Tidewater, Ore.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404.
1080 Magnolia Ave. Elizabeth, N. J.

HELP WANTED — Aggressive man with sales ability and design experience for excellent year-round position in farm and garden center in midwest. Must be capable of handling employees. Must be willing to learn and merchandise allied lines of merchandise. Profit-sharing arrangement. State complete qualifications and starting salary expected in your own handwriting. Enclose picture. Your reply will be kept in strict confidence. Write Box 550, care of American Nurseryman.

FOR SALE—Nursery in midwest. Operated as hobby; possibilities unlimited. Concrete building, 1664 sq. ft. Attached glass greenhouse, 13x36 ft. Lath area, 36x40 ft. Refrigerator room, 15x18 ft. Excellent well, neon sign and new tractor. Stock potted and in field. 3 acres on U. S. highway. Health forces sale. $12,000; terms if desired. Address replies to Box 542, care of American Nurseryman.

WANTED TO BUY—Or lease with option to buy. Small nursery or garden store in New Jersey. Minimum 1 acre, in growing area, reasonable. Would consider property without established business. Address replies to Box 547, care of American Nurseryman.

and when the work was advanced, he opened his arboretum to the public.

He was a member of the American Forestry Association, the American Museum of Natural History, the New York Zoological Society and the Metropolitan Opera Guild, as well as being active in various philanthropic fields.

Survivors include two sons, Eugene J. and Jerome V.; a daughter, Mrs. Esther Baden, and three sisters.

Reginald G. Barrett

Reginald G. Barrett, Barrett's Home Gardens, Sierra Madre, Calif., died November 8 after a long illness. Mr. Barrett was born in England and had been a resident of Sierra Madre for the past 20 years. A member of the California Association of Nurserymen, he was also active in Masonry and in the Boy Scouts of America. Survivors include his widow, Verna, and a son, Leonard.

Mrs. Josephine Brownell

Mrs. Josephine Brownell, Little Compton, R. I., widow of Walter D. Brownell, Brownell Rose Research Gardens, Little Compton, and developer with him of the Brownell strain of roses, died November 23 in a hospital at Fall River after a long illness.

Born in 1880 at Detroit, Mich., Mrs. Brownell moved first to Providence, R. I., and then to Little Compton, where she had resided the past 30 years. She was a member of the Garden Club of America and an honorary member of the Little Compton Garden Club. Survivors include three sons, Herbert C., Little Compton, and George and W. Dexter Brownell, Jr., both of Middletown.

Mrs. J. Sidney White

Mrs. J. Sidney White, mother of Richard P. White, executive vice-president of the American Association of Nurserymen, died December 6 at Acton, Mass. She was in her 80's.

WISCONSIN SPEAKERS

[Continued from page 12]

weather changes seem to run in 3,500-year cycles.

In our own country, the weather has been growing warmer since 1850, said Dr. Bryson. This increasing warmth has been especially pronounced since 1890, when the average winter temperature began going up. The mean winter temperature in Iowa, for example, is up 1.7 degrees, an appreciable amount, since even an unusually bitter winter produces a drop of only 2 or 3 degrees in the

ALUMALATH

THE MODERN MATERIAL

Aluminum, designed for scientific sun control.

Millions of feet in use throughout the United States and the many repeat orders received for increased coverage in the past 10 years prove its value.

NURSERY

Designed for ease and low-cost erection. It is lightweight, with a high-gloss baked enamel finish, long lasting, with minimum maintenance.

Extensively used by commercial growers, nurserymen and landscape architects, for better plant protection.
Manufactured in four lath spacings, one will meet your most exacting uniform sun intensity requirements.

LATH HOUSE

Ideal shading medium for patios, carports, parking lots, commercial displays and any area requiring shade.
Perfect shade, ventilation, diffused reflected light with minimum light loss and beautiful appearance are assured with ALUMALATH.

GET THE FACTS
WRITE FOR SAMPLE AND PRICES

Manufacturer

HARRY H. REYNOLDS
2561 Valencia St.
SANTA ANA, CALIF.

2 PROFITS
***from* The *Beseler* TREE MOVING SYSTEM**

The first profit is from selling the tree and the second profit from moving and planting the tree with the patented BESELER TREE MOVER and SLINGS.

With the BESELER SYSTEM you can move and plant.

- Safely and economically in loose and sandy soils.
- Under adverse conditions.
- In previously considered inaccessible places.
- Without damage to the tree or lawn.

Write for folder and terms about the BESELER TREE MOVING SYSTEM.

TREE MOVING EQUIPMENT CO.
871 Edgerton St. St. Paul 1, Minn.

BOOKS ON ROSES

MODERN ROSES V **$10.75**
Compiled by J. Horace McFarland Co. and The American Rose Society

Completely revised. Describes 7562 varieties and provides basic information on all roses of current interest. Gives description of the flower, the plant name and date of introduction, with the name of the hybridists and introducers. A record of patented roses is included. Valuable for catalog descriptions. 520 p. 16 roses in color. (1958).

ROSES FOR EVERY GARDEN **$4.50**
By R. C. Allen
Bush and climbing roses. Varieties listed by color, classification and use. Chapters include soil, planting, fertilizing, watering, mulching, pruning, insects and diseases, propagation, hybridization, exhibiting, Florida culture, Gulf area, arid regions and California. 218 p. (1956).

ROSES ILLUSTRATED **$3.50**
By M. L. Sharp and Dean Collins
Concise information on the various phases of growing roses, including planting, culture, irrigation, propagation, pruning, pest control and hybridizing. 232 illus., 96 in color. 160 p. (1957).

ANYONE CAN GROW ROSES **$3.00**
By Cynthia Westcott
More than 200 of America's best roses are analyzed as to hardiness, disease and resistance, height and rating. Illustrated charts cover pests and diseases. (1954).

WHAT EVERY ROSE GROWER SHOULD KNOW **$1.75**
By Editors of American Rose Society
4th edition, revised by R. C. Allen. Essential information, giving basic practices. Arranged for easy reference. 78 p. 16 illus. (1951).

AMERICAN NURSERYMAN, 343 S. Dearborn St., CHICAGO 4, ILL.

ADAIR'S MONEY-MAKERS
Tree Diggers — Root Pruners
Special Cutter Blades
CHARLES ADAIR CO.
1225 Cottage Grove Ave.
CHICAGO HEIGHTS, ILL.

PROTECT YOUR CROPS
STOP
COLLEGE BRAND
MAGIC CIRCLE DEER REPELLENT
SPRAY Low-Cost Magic Circle Repellent. Creates barricade against Deer. Also Beavers, Woodchucks, Sheep, Skunks and Raccoons in some cases. Odor not offensive to humans.
BUY NOW! Locally, or order direct from State College Laboratories, State College, Pa.
New Rabbit Repellent Available. Write for info.
STATE COLLEGE LABORATORIES
Dept. H, P. O. Box 492, State College, Pa.

mean temperature. Another indication of the warming trend is the fact that the ice on the Arctic ocean, which was 10 feet thick in 1890, was only five feet thick in 1950. If this warming trend continues, we may eventually have an ice-free Arctic ocean, with greatly improved agriculture in the area.

On the basis of a 3,500-year weather cycle, the weather in the United States is destined to become warmer for some years to come, Dr. Bryson said. Wisconsin nurserymen may find it possible to grow stock which was never before hardy in the area. On the other hand, some items requiring a cold climate might have to be abandoned.

Nurserymen in the audience asked Dr. Bryson a number of questions concerning long-range weather forecasting. He felt that there was no evidence that anyone could make an accurate or even a skillful long-range forecast. He said that he had studied data on the much publicized long-range forecasting in preparation for the 1944 Normandy invasion and had concluded that it was only lucky guesswork.

As for changing the weather—producing rain by cloud seeding—it is not practical in the midwest, Dr. Bryson declared. He said the only place it seemed practical was an area like the west coast mountain ranges, where winds blow marine air up the slopes. East of that area, there are enough impurities in the air from cities to seed clouds more effectively than man could do it with silver nitrate.

Nursery Soils

Marvin T. Beatty, of the soils department of the University of Wisconsin, said that the soils of the world have been affected over the period of history by the climatic changes mentioned by the previous speaker. Weather, however, is not the only factor which changes soils. They can be changed in a number of ways by man-made means.

Mr. Beatty cautioned nurserymen to be sure of their ground before tampering with soil, since it is a complex medium which is in balance with itself. He urged them to seek and take the good advice of experts before proceeding and to know the difference between things which cannot be changed and those which can. He exhibited samples of soils which had been mistreated so badly that they resembled rocks more than soil.

The effects of abuse on soil do not always show up at once, Mr. Beatty said. The medium will still grow

HERE IS WHY NURSERYMEN PREFER MENNEPOTS

Superior Strength Sturdily constructed, the MENNEPOT withstands hard handling.

Stapled Bottom Comes completely assembled . . . Potting can start immediately upon arrival.

Light Weight The MENNEPOT is economical to use. Light weight makes shipping costs less.

Drainage The side-drainage feature makes waterlogging impossible while standing in salesyard.

Size 0 Top .....4 ins. Bottom 3½ ins. High ....4 ins. Weight per 100 Regular 10 lbs., Heavy 25 Regular Weight Price 100..$2.75 1000..$25.00 Heavy Weight Price 100..$3.75 1000..$35.00

Size 0½ Top .. 5 ins. Bottom 4 ins. High . 5 ins. Weight per 100 Regular 13 lbs., Heavy 30 Regular Weight Price 100..$3.50 1000..$32.50 Heavy Weight Price 100..$4.50 1000..$42.50

Size 1 Top .....6 ins. Bottom ..5 ins. High ....6 ins. Weight per 100 Regular 15 lbs., Heavy 35 Regular Weight Price 100..$4.00 1000..$37.50 Heavy Weight Price 100..$5.25 1000..$50.00

Size 2 Top .....7 ins. Bottom 5⅜ ins. High ....9 ins. Weight per 100 Regular 24 lbs., Heavy 55 Regular Weight Price 100..$4.50 1000..$42.50 Heavy Weight Price 100..$5.75 1000..$55.00

Size 3 Top ...8½ ins. Bottom 6½ ins. High ....9 ins. Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100..$5.00 1000..$47.50 Heavy Weight Price 100..$6.25 1000..$60.00

Size *4 Top ....10 ins. Bottom ..8 ins. High ...10 ins. Weight per 100—120 lbs. 100..$11.00 500..$52.50 1000..$100.00 *Heavy Only— For trees and shrubs.

Size *5 Top ....12 ins. Bottom .10 ins. High ...12 ins. LG. POT Weight per 100—250 lbs. 20..30c ea. 100..$27.50 500...$125 1000...$225 *Special for extra-heavy trees and large shrubs.

Size Pan Top ...8½ ins. Bottom 7½ ins. High ....5 ins. PAN Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100..$5.00 1000..$47.50 Heavy Weight Price 100..$6.25 1000..$60.00

Distributors

NEW YORK	Jackson & Perkins Co., Newark, N. Y. Gar Prod., Inc., Queens Ave., Lindenhurst (Long Island), N. Y.
OHIO	I. G. Harmon & Son, 1800 19th St., Canton 4, O. Seward Transportation Co., 1294 Madison Ave., Painesville, O. The Horticultural Supply Co., 2181 E. 55th St., Cleveland 3, O.
PENNSYLVANIA	E. C. Geiger, North Wales, Pa. Verscharen's Garden Centers, Rt. 51, Brentwood, Pittsburgh, Pa. Rt. 88, S. Park, Pittsburgh, Pa.
NEW JERSEY	New Yorker Bag & Burlap Co., 651 Marshall St., Elizabeth, N. J. Somerset Rose Nursery, Inc., New Brunswick, N. J.
ILLINOIS	Quackenbush Industries, Inc., 9245 Cherry St., Franklin Park, Ill.
MICHIGAN	Growers Exchange, Inc., P. O. Box 397, Farmington, Mich. Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich.
MINNESOTA	Attwood Division, Kelley & Kelley, Inc., Long Lake, Minn.
RHODE ISLAND	American-Dutch Trading Co., Inc., 47 Codding St., Providence, R. I.
CANADA	The Sheridan Nurseries, Ltd., Sheridan, Ontario, Canada.

500 of a size takes 1000 rate in sizes 0-0½-1-2-3-Pan. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-Pan. Size 0, 250 only. Size 0½, 200 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in sizes 0½ and 1; 50 per carton in sizes 2, 3, Pan and 4, and 20 per carton in size 5. NO BROKEN CARTONS.

SEND $1.00
FOR COMPLETE SET OF 14 SAMPLES.

THE MENNE-POT, INC.
NORTH TONAWANDA, N. Y.
Phone LUdlow 4444

Prices Vary Slightly in Areas Serviced by Distributors
DISTRIBUTORSHIPS OPEN IN SOUTHERN STATES

things for a while before it deteriorates completely. On the other hand, it takes some time for the effects of soil improvement programs to be evident.

The speaker said that the soils department of the university can make much better soil tests than usual if the nurserymen sending in samples will include the cropping, fertilizer and management histories of the soil. It also helps to know what crops are expected to be grown in the soil. In selecting sites for the establishment of new nurseries, Mr. Beatty recommended using a soil map of the state.

Discussion from the floor after Mr. Beatty's talk brought out a number of ideas on the treatment of soil between growing seasons. Prof. O. B. Combs, of the university, recommended oats as a cover crop for bare spots in nurseries, since it dies out over winter and causes no trouble in spring planting time. He suggested a combination of Sudan grass and soybeans as an excellent green fertilizer and said that it was good practice to feed such green manure crops to get maximum growth to plow under. For areas not needed for nursery production for some length of time, he urged planting a legume such as alfalfa.

Lawn Seeds

Prof. George A. Ziegler, department of horticulture, University of Wisconsin, spoke out strongly against overuse of nurse grasses in lawn seed mixtures. Since a good bluegrass or fescue lawn is the eventual goal, seed mixtures should concentrate on these.

One of the biggest weed problems in lawns, Professor Ziegler said, is a tall-growing fescue that is put into many seed mixtures as a nurse crop and then persists in the lawn as a weed. The nurse crop is, in effect, going into competition with the permanent grasses. He suggested the use of an annual rye grass as a suitable nurse crop.

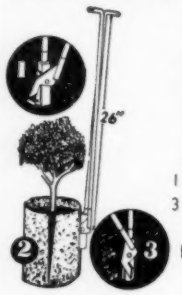
Professor Ziegler asked for the help of the nurserymen's association in staffing a proposed state fair display showing types of evergreens, shrubs, trees and flowers that grow well in Wisconsin. Fair visitors in previous years have asked so many questions that it seems a good idea to have a qualified expert on hand at all times to answer them. The association appointed a man to work with Professor Ziegler on the matter.

Unusual Plant Use

The cream of 39 years of landscape work was presented to the convention by Owen B. Schmidt, Narberth, Pa., by way of color slides. Mr. Schmidt's specialty has been espalier trees and unique uses of vines, and his accomplishments in both have been outstanding.

Careful preparation is a must for an espalier, said Mr. Schmidt. The framework should be built to support the plant for 20 years, weatherproof metal cables and bolts being used. The framework is often more expensive than the plant itself, but the

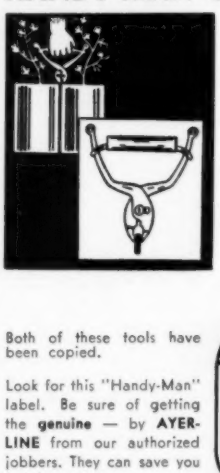
SAVING THE MOST
time and temper
COAST TO COAST
REDHEAD CAN SHEAR



cuts ALL cans
- CLEANLY
- SWIFTLY
- SAFELY!!

Retail: $7.50
Nursery Price:
1 or 2, each..$ 7.00
3 for 18.75
Postage extra.
Pkg. wt., 4½ lbs. each.

HANDY-MAN GRIPZIT



- SAVES wear and tear on cans and fingers.

Retail: $3.50
Nursery Price:
1 only $3.20
2 or more $2.90 each.
Postage extra
Pkg. wt., ¾ lb. ea.

Both of these tools have been copied.

Look for this "Handy-Man" label. Be sure of getting the **genuine** — by **AYER-LINE** from our authorized jobbers. They can save you freight and time.

SYMBOL OF SERVICE AND QUALITY

From Maine south through Virginia, west through Pennsylvania and West Virginia, write A. H. GUTBROD CO., Box 96, Irvington, N. J.

From North and South Carolina, Georgia, Alabama and Florida, write COLUMBIA NURSERY SUPPLY CO., Box 5068, Columbia, S. C.

From Illinois, Indiana, Ohio, Kentucky and Tennessee, write A. M. LEONARD & SON, Piqua, O.

From Kansas, Missouri, Oklahoma, Arkansas, Louisiana, Mississippi and Texas, write VERHALEN NURSERY CO., 12140 Harry Hines Blvd., Dallas, Tex.

From Unnamed States Write to:

Ayer-Line INDUSTRIES, INC.
700 Jones St. BERKELEY 10, CALIF.

effect is well worth the cost. Espaliered trees have been more popular in Europe than in this country, possibly because they require more maintenance than most American gardeners are willing to give. Mr. Schmidt said that maintenance of his landscaping jobs is up to the homeowners, as a rule.

The big effects achieved from small plant materials under Mr. Schmidt's skillful handling were almost unbelievable. There was a climbing rose trained on a cable beneath a large window so that it resembled a windowbox of blooming plants. There were yews trained in ropelike spirals around posts. Ivy trained on chicken wire frames made a home look as if it were garlanded for Christmas.

Mr. Schmidt keeps in mind how the landscaping looks from inside the home. "Many of us in the landscaping business," he said, "use the phrase 'foundation planting' too much and forget that what is out beyond the house is just as important."

An espaliered tree should be given a good tip back against the wall, Mr. Schmidt said. The constant pruning and cutting that are necessary encourages vigorous plant growth and flower production. The homeowner, of course, must keep up this pruning, or the effect is lost.

Plants used in unusual ways in Mr. Schmidt's nursery included a pair of arborvitae trained into a garden arch. He said that all nurseries, especially all garden centers, should make use of a few spectacular planting ideas around the grounds to show customers what can be done. He said that while it is not always possible to make a profit on such jobs, they often bring in people who then buy things on which it is possible to make a profit. Mr. Schmidt makes a practice not only of trying out new plant materials as they come on the market, but of bringing back some of the old favorites.

WISCONSIN MEETING

[Continued from page 11]

petition to the local nurseryman, partly because transportation costs have increased to the point at which there is little profit in such an operation, and partly because customers appreciate being able to see what they are getting and take it home with them at once.

The nursery industry is just beginning to grow up, Mr. Pinney concluded, by improving its growing methods and learning more about its costs. As it advances to maturity, the

CUT WEEDING COSTS!

USE WEEDER GEESE

Weeder geese eat troublesome grass and many broad-leaved weeds but do not touch nursery stock. Thousands now in use by nurserymen everywhere in all types of plantings, including evergreen and hardwood shrubs, flowering plants, seedlings, tree plantings, berries and orchards. Weeder geese replace expensive hand labor and do a continuous and better job—are inexpensive and easy to use.
Day-old goslings and weeder geese delivered anywhere. Write today for complete information.

HEART OF MISSOURI POULTRY FARM
Box 237N COLUMBIA, MO.

Wood Feathers
SCREENED
BALED RED CEDAR SHAVINGS

The Perfect Nursery Packing
Manufactured by
MONARCH SHINGLE CO.
P. O. BOX 98 N. PORTLAND, ORE.
LOW DELIVERED PRICES—We Solicit Your Inquiries

Dutch and Domestic
BURLAP
PLAIN and TREATED

Established 1925
IMPORTERS—MANUFACTURERS
Distributors of Bird Pots and Lerio Nurserieans
J. SHORE & CO.
Chelsea, Mass.

state and federal governments will become increasingly aware of the pressures of the industry and begin to recognize some of its problems.

John Orton, Hawks Nursery Co., reported on the work of the association's highway committee, of which he is chairman. He said that his group has been trying to persuade the state highway department to use more native materials in its roadside plantings, and suggested the compilation of some sort of master list showing what materials Wisconsin nurserymen have available. Association members decided against compiling such a list, feeling that it was up to the highway department to make known their wants instead.

The group discussed specifications and lists of plant materials on landscaping jobs put out for bids by the highway department. The feeling was that a more realistic outlook is needed on the part of the department as to shrub and tree sizes in order to get the most landscaping for their money.

Members also agreed that a good deal of "missionary work" is necessary to acquaint highway department personnel with what constitutes good and accepted planting practices. As a member put it, specifications often call for "a hole big enough to plant a truck, just for a 1½-inch tree."

A side result of the discussion was the agreement between members that it would be wise to make up, for the use of nurserymen, a list of nursery stock available in Wisconsin, so that as many needs as possible could be filled from within the state.

State Nursery Regulations

Hubert E. Halliday, entomologist with the Wisconsin state department of agriculture, reviewed the proposals that his department intended to make at a public hearing to consider adoption of and amendments to rules governing nursery inspection and the care and sale of nursery stock. Some of the rules, said Mr. Halliday, would put some teeth into the statutes.

A major section of the rules would concern misrepresentation, declaring it "misleading . . . for any person in connection with the sale of any nursery stock to fail to disclose on the tag or label the following material facts whenever applicable:

"1. That nursery stock collected from the wild state was so collected, unless it has been grown under cultivation in a nursery for at least one growing season.

"2. That the nursery stock is not

Nurserymen are making money from these sprays

PRATT'S Sprays AND DUSTS

Good Sprays to Use and Sell

SCALECIDE

The superior dormant spray and a best seller for 54 years! Gives customers the safest and most effective way to kill scale, aphids, red mite and other overwintering insects. One quart makes up to 12 gallons of spray.

	Retail	Packed	Dealer
1-pint can	$0.95	12 to case	$ 6.84
1-quart can	1.39	12 to case	10.00
1-gallon can	3.25	6 to case	11.70

PARA-SCALECIDE

A safe, one-shot, labor-saving material for controlling borers in fruit trees, shade trees and ornamentals. Nurserymen, home gardeners and orchardists prefer Para-Scalecide because it does a thorough job with one application. Used mainly in fall, but also effective in spring.

	Retail	Packed	Dealer
8-ounce bottle	$0.85	12 to case	$ 6.12
1-quart can	1.69	12 to case	12.17
1-gallon can	3.98	6 to case	14.33

PRATT'S SPRAY FOR EVERGREENS

And now an evergreen spray formulated and packaged especially for the suburbanites. Controls all common insects affecting evergreens, shade trees and ornamentals. Kills Aphids, Bagworm, Japanese Beetle, Juniper Webworm, Leaf Hoppers, Leaf Miners, Red Spiders, Mites and many others. Contains Lindane, Malathion and DDT. Dilutes 1 to 200.

	Retail	Packed	Dealer
8-ounce bottle	$1.50	12 to case	$10.80
1-pint bottle	2.50	6 to case	9.00
1-quart bottle	4.50	6 to case	16.20

PRATT'S LIQUID ROSE SPRAY

At last—here's a one-package insecticide-fungicide concentrate that will not clog a nozzle. Contains Lindane and Dieldrin for control of all common garden insects and Glyodin and Karathane for controlling Black Spot and powdery mildew on roses, Leaf Spot on mums, rust on snapdragons and many other diseases. Dilutes 1 to 200 for insects, 1-100 for fungus.

	Retail	Packed	Dealer
8-ounce bottle	$1.50	12 to case	$10.80
1-pint bottle	2.50	6 to case	9.00
1-quart bottle	4.50	6 to case	16.20

PRATT'S NEMAGON

An emulsifiable concentrate of Nemagon soil fumigant which controls nematodes in established turf and on roots of many vegetables, melons, flowers, fruits, shrubs and trees. Safe for pre-plant or post-plant treatment.

	Retail	Packed	Dealer
1-pint bottle	$4.00	6 to case	$14.40
1-quart bottle	7.00	6 to case	25.20

Prices slightly higher west of Mississippi River.

These products are also available in larger sizes. Write for prices on complete Pratt Line.

B. G. Pratt Co., 189 Twenty-first Ave., Paterson, N. J.

ONE Application of Ringwood RABBIT REPELLENT PROTECTS TREES AND SHRUBS FROM RABBITS — ALL WINTER!

ONLY RABBIT REPELLENT IN SPRAY-ON AEROSOL CAN! So effective just one application completely protects deciduous trees and shrubs during the entire dormant period when they're most subject to rabbit attack—CONTINUES protecting them through spring and summer. Rain and snow CAN'T wash it off. Developed and PROVED BEST by U. S. fish and wildlife service. **Unconditionally guaranteed!**

5-oz. aerosol can, **$1.25**; 12-oz. aerosol can, **$2.50**. Also sold in pints, quarts and gallons for nurseries, etc.

STANDARD DISCOUNTS—For full information and FREE SAMPLE write:

MEDICAL SERVICE CORP.

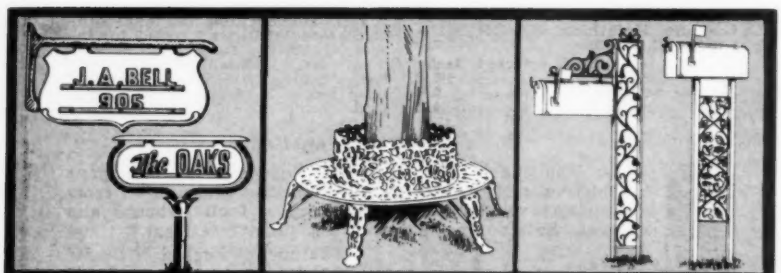
130 N. Campbell Ave. Chicago 12, Ill.

Treated or untreated burlap squares—
Burlap rectangles—
sewed burlap any size.

PINNING NAILS
6d in 100 pound kegs

Write for catalog

Columbia
NURSERY & GARDEN SUPPLY CO.
P. O. Box 5068 Columbia, S. C. Telephone ALpine 4-3786



These ornamental metal products can be your biggest

PROFIT-MAKERS

They're natural sellers with your other lines . . . go hand in hand with your sales of seeds, lawn mowers, garden supplies—and your markup is up to 100%! Mail coupon today for catalog and wholesale prices!

TENNESSEE FABRICATING CO.
1287 Grimes St.
Memphis 6, Tenn.

Send your catalog and wholesale prices.

TFC manufacturers

*Name*_____
*Address*_____
*City*_____ *State*_____

hardy under normal climatic conditions in this state, when such is the fact.

"3. That roses are greenhouse grown, commonly known as bench roses.

"4. That nursery stock was inspected and certified as free from injurious insects, plant diseases and other plant pests by inspection officials in a state other than Wisconsin."

Another section concerns standards of care which "No person possessing nursery stock for sale shall fail to observe." These include keeping stock watered so that its roots are moist at all times; placing balled and burlapped stock on a 3-inch layer of soil, peat, sawdust, vermiculite or other moisture-holding material not toxic to plants, and erecting a solid barrier at least 10 inches high around stock stored outside, as a protection against the wind.

Care of Bare-Root Stock

The proposed regulations also suggest: "Nursery stock with bare roots shall be heeled in, in the ground, or covered with hay, sphagnum, peat, shingletow or other moisture-holding material not toxic to plants, or kept in a storage room where temperature and humidity are so controlled that the viability of such stock will be fully maintained. At the time of delivery to the purchaser the roots shall be covered with such moisture-holding material, which shall be moist, and shall be tightly wrapped to retard desiccation."

To make matters perfectly clear, the proposed regulations further state: "Nursery stock which by reason of desiccation, damage or other cause will not grow normally, shall be removed from sale." Mr. Halliday urged Wisconsin nurserymen to be present at the public hearing to make known any changes they consider necessary in the wording of the regulations.

A short play dramatizing the merchandising problems confronting today's retail nurseryman was presented on Thursday afternoon. Starring as Jim Wilson, a quality nurseryman, was Kenneth Greaves, new president of the association. Members of the Shorewood Players assisted him in presenting the play, which was written by Helen Isenring.

The annual banquet of the Wisconsin Nurserymen's Association was held in the Pere Marquette room of the Hotel Schroeder. An A. A. N. award for industrial landscaping was presented at the banquet to the Square D Co., Milwaukee, for land-

VAL-PEAT® POTS - THE BETTER, STURDIER PEAT POT

AMERICAN MADE - - "FULL DIMENSIONAL"

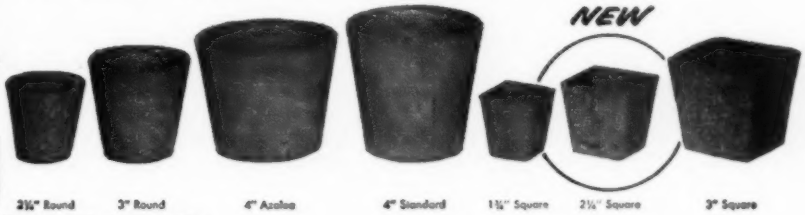
Val-Peat Pot sizes are inside top diameters "full dimensional." Our new 2¼-in. square Val-Peat Pots hold 42% more soil than some other peat pots of the same stated dimension. Our 2¼-in. round Val-Peat Pots also hold more soil than other brands.

ORDER VAL-PEAT POTS AND RECEIVE FULL MEASURE.

Mums
Carnations
Hydrangeas
Perennials

Nursery Stock
Foliage Plants
Poinsettias

VAL-PEAT POT ORDERS 150 LBS. AND OVER PREPAID IN U.S.A.



® Reg. U. S. Patent Office

VAL-PEAT POTS — ROUND SIZES

Inside top Dimension of pot	Number of pots	Number pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428A 2¼-in.	2,000 to 18,000	2000	30 lbs.	$ 7.25
Diameter	20,000 to 74,000			6.75
Round	76,000 and over			6.25
S-1428B 3-in.	1,000 to 9,000	1000	24 lbs.	13.25
Diameter	10,000 to 49,000			12.25
Round	50,000 and over			11.00
S-1428C 4-in.	500 to 2,000	500	27 lbs.	29.25
Diameter	2,500 to 10,000			26.75
Round	11,000 and over			25.25
S-1428E 4-in.	500 to 2,000	500	25 lbs.	28.75
Round	2,500 to 9,500			26.25
Azalea	10,000 and over			24.75

VAL-PEAT POTS — SQUARE SIZES

Inside top Dimension of pot	Number of pots	Number pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428 1¾-in.	2,500 to 17,500	2500	30 lbs.	$ 7.00
Diameter	20,000 to 70,000			6.50
Square	72,500 and over			6.00
S-1428F 2¼-in.	2,000 to 18,000	2000	40 lbs.	11.00
Diameter	20,000 to 74,000			10.25
Square	76,000 and over			9.50
S-1428D 3-in.	1,000 to 9,000	1000	40 lbs.	18.25
Diameter	10,000 to 49,000			17.00
Square	50,000 and over			15.25

CHICAGO 6
601-609 W. Jackson Blvd.
Phone: Franklin 2-7560

Vaughan's Seed Co.
THE FLOWER SEED HOUSE OF AMERICA

NEW YORK 13
85 White St.
Phone: Barclay 7-4900

scaping at its new factory on West Good Hope road. Landscape architect for the project was Franz Lipp, Chicago. Landscape contractor was Wilfong's Green Thumb Garden Center, Milwaukee.

Other events included a Wednesday evening fun night in the Pere Marquette room, a coffee break sponsored by the exhibitors, and a cocktail hour sponsored by the McKay Nursery Co., Madison. Ladies attending the convention toured the Gaenslen Orthopedic School, and enjoyed a luncheon at the Saxony.

A. A. N. Election

At a noon luncheon meeting of the Wisconsin chapter of the A. A. N., the following officers were elected: President, Kenneth Greaves; vice-president, Ralph Petranek, and secretary-treasurer, Thomas Pinney. Walter Remond continues as delegate, having been elected last year to a 2-year term, while John Gartman was delegated as his alternate.

Roy Clavey, F. D. Clavey Ravinia Nurseries, Inc., Deerfield, Ill., A. A. N. director, told of the many activities of the national association which benefit all nurserymen. No nurseryman's problem is too small or too large, he asserted, for the attention of the A. A. N.

NAMSCO PEATS = SALES REPEATS

FINELY GRANULATED
HIGHLY ABSORBENT
TOP-QUALITY
CANADIAN AND
EUROPEAN
PEAT MOSS

Prompt Shipments
'Hollandia" Burlap
SQUARES
REED MATS
for Coldframes

Write for Prices
State Requirements
NEW AMSTERDAM IMPORT CO.
120 Grand St., White Plains, N. Y.

NEW JERSEY CITATIONS

At the annual banquet of the New Jersey Federation of Shade Tree Commissions held at Chalfonte-Haddon Hall hotel, Atlantic City, N. J., in November, 1958, the New Jersey Society of Certified Tree Experts presented two citations through President Edward F. Brarmann, Jr., Englewood.

Nelson T. Kessler, formerly secretary of the tree expert bureau of the state department of conservation and economic development, was cited for having faithfully and understandingly carried on the functions of his office and having cooperated to the utmost with the New Jersey Society of Certified Tree Experts for 18 years. His administration of the state's tree expert act drew nationwide attention.

The second citation went to the New Jersey Arborists Association for an exemplary act of brotherhood. On two different days, May 17 and June 7, 1958, about 30 men, under the sponsorship of the association, representing 18 tree expert organizations, divided the booked orders of a seriously sick member and, using their own equipment, did his work to the satisfaction of some 25 previously anxious clients. These volunteers received no compensation except the gratification of having helped a family in distress. The work completed represented nearly $2,000 to the dependents of the sick member.

UTILITY COMBINATION HANDLES ALL PRUNING

This "WE" combination trimmer and pole saw is the handiest combination made. Many have found it the only tool needed for most pruning jobs.

Heavy-duty trimmer, with 30-inch head section, easily severs limbs up to 1¼ ins. in diameter. The curved blade pole saw, also with 30-in head, handles larger limbs. Both head sections fit the same octagon Sitka spruce pole, quickly assembling and disassembling for carrying in small car. Furnished with two 6-ft. pole sections, complete, **$35.00**, delivered. Also available in other lengths.

Additional pole selections extra.

TP4 PAINT CAN

Convenient pint can with adjustable round brush which enters can through brass tube maintaining a tight seal at all times. Screw top. Leather case with belt loop in back.

Complete, **$5.50**

HAND SAWS

A complete line of hand saws. Illustrated is 124-B with 24-in. blade, with fast-cutting teeth 4 points per inch. Combines fast, smooth cutting, **$8.90.**

ABOVE PRICES DELIVERED IN U.S.A. Write for new catalog listing all tools and supplies.

TRADE MARK COMPOUND

TREE SURGERY SUPPLIES

BARTLETT MFG. CO.
3058 E. Grand Blvd.
DETROIT 2, MICH.

MINNESOTA NURSERIES

[Continued from page 9]

nursery industry in Minnesota what it is today.

Evolution in Nursery Material

According to Professor Alderman, "After the colonies were well established, we found an intense desire for fruit expressing itself in an intense effort to grow and test native fruits. The most desirable were propagated for sale, and thus started the nursery business." Often criticized and sometimes maligned, nurserymen since that period have continued in the vanguard of horticultural progress. It is doubtful if any other industry has contributed so richly to the advancement of horticulture in North America.

When the early settlers talked about fruits, the apple was foremost in their minds. There were no native American apples, and it is probably true that the first in the region were exhibited in 1855 by the Reverend Pond at Bloomington, Minn.

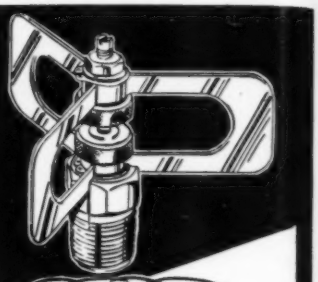
Our first apples undoubtedly were apples from Russia, and some of them were imported by England as early as 1817, coming thence to eastern America. In 1870, the United States Department of Agriculture imported several hundred varieties of Russian apples, such as Red Astrachan, Tetofsky, Charlamoff, Duchess, Hibernal, Lowland Raspberry, etc. Some of these lasted longer than others. The Duchess and Hibernal are the only two that seemed to survive competition.

Because of the tremendous demand for apples, the first material grown in Minnesota nurseries was this fruit. The lack of winter apple varieties suitable for the state was, of course, apparent. The Malinda apple, brought west from Vermont, was grown, though I have been unable to find the year of its introduction in Minnesota. Of course, the quality of the Malinda left much to be desired.

Native varieties of plums were explored, and many of these selections were well worth-while. With the introduction of the hybrid plums from the Minnesota Fruit Breeding Farm, the older varieties were discarded, as these new varieties—such as Ember, Underwood, Monitor, etc.—were far superior.

Windbreak Demand Rises, Falls

While the growing of fruit constituted a major portion of the early sales in Minnesota nurseries, the demand for windbreak trees was increasing, and by the early part of the 20th century, windbreak stock be-



Fog-mist NOZZLE

for Propagation and Humidity Control

LONGER LIFE
PRECISE PERFORMANCE
BEST NOZZLE ANYWHERE

- Stainless Steel Orifice Insert
- Stainless Steel Target Screw
- Monel Metal Cylindrical Screen
- Phosphor Bronze Alignment Brackets

Nozzle No.	Orfice Size	At 20-lb. pressure Diameter	G.P.M.
550-A	0.28 in.	5 ft.	.1

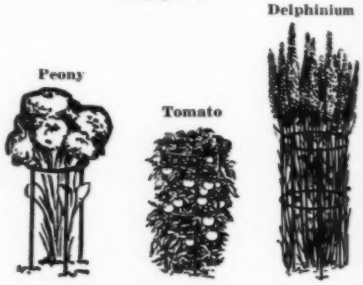
$2.95 each. One dozen, $2.36 each. Postpaid with check or money order. Guaranteed. 3% tax in Florida.

SPRAYERS & NOZZLES

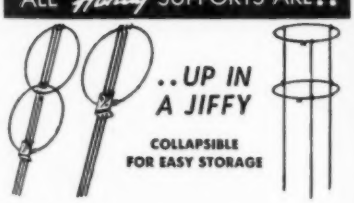
2575 28th Ave., No. ST. PETERSBURG 4, FLA

BRAND NEW IDEAL Handy PLANT SUPPORTS

Keep Plants up off ground — Help plants grow strong & productive — Protect plants from wind-storm



ALL Handy SUPPORTS ARE..



ALSO —
Midget, Fence, Lawn Guards, Hose Holders, Label Markers, C-L Plant Stakes.

Send for folder today.

LANSING SPECIALTIES MFG. CO.
Dept. A159, 918 Clark Rd.
Lansing 17, Mich.

EASIER SALES WITH EASY-HANDLING CLOVERSET POTS!

With all the intense competition in the nursery business these days, it sometimes isn't sufficient to offer fine-quality plants alone. Quite often the balance is tipped in the direction of extras, such as convenience and ease of handling. Capitalize on your use of Cloverset Pots by pointing out how simple it is to plant your stock. Your customer need only dig a hole, peel off the pot and place the soil ball in the ground. You'll find that, all other things being equal, the Cloverset Pot makes the sale. It simplifies your own operation, too! Here's why Cloverset Pots are superior to any other plant container:

1 Lasts a full year or more in the sales frame.
2 Contains roots safely within the soil ball; permits transplanting any time.
3 Has adequate bottom opening for good drainage without waterlogging; no gravel necessary.
4 Rests on wide bottom; no blowing over in the frames.
5 Available in sizes to accommodate stock of any salable size.
6 Is neat and uniform in appearance, an asset to the sales area.
7 Tough enough to permit easy handling in potting shed and frame.
8 Easy for customer to remove—at once, a week later, or even a month after they take stock home.
9 Lightweight (but with all these qualities) to save on freight costs.
10 . . . and sufficiently low priced so that it may be given away with the plant.

MAKE MORE MONEY WITH MORE SALES OF MORE PROFITABLE CASH-AND-CARRY STOCK

Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. KANSAS CITY Per 100	Per 1000
No. 0	5½ ins.	5 ins.	6 ins.	200	210 lbs.	$4.25	$40.00
No. 1	6½ ins.	6 ins.	7 ins.	100	340 lbs.	5.25	50.00
No. 2	9½ ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00
						25 pots, $7.70; 50 pots,	
No. 4	13 ins.	12 ins.	....	25	Per 100 133 lbs.	$14.60; 75, $21.75; 100, $26.15; 1000, $231.00	

Cloverset Pot Prices F.O.B. Kansas City.

ORDER NOW FOR FALL POTTING!

Cloverset Farm
10550 Wornall Rd.
Kansas City 14, Mo.

Never tried CLOVERSET POTS? Use this handy coupon to order your SAMPLE SET.

CLOVERSET FARM, Dept. 128
10550 Wornall Rd., Kansas City 14, Mo.

☐ I enclose 50c; please send me a sample set of Cloverset Pots (limit, one set).
☐ Please send me information on Cloverset pots and Cloverset Rose and Garden Dust.

NAME.....
FIRM.....
ADDRESS.....
CITY..... ZONE... STATE.....

came an important item of production. I can recall standing on a hill at one of the Minnesota nurseries and viewing a field of 100 acres of poplars and willow cuttings.

As the state and federal nurseries became active in distributing trees free or at a price with which commercial nurseries could not compete, the market for windbreak trees gradually disappeared. Nurserymen, to a great extent, at least, eliminated the growing of windbreak material such as seedlings, rooted cuttings and low-priced evergreens.

The demand for fruits also diminished, and the nurserymen devoted their energies and their land to the growing of ornamental trees, shrubs and evergreens. While sales of fruits and windbreaks formerly constituted 80 to 90 per cent of their total business, it gradually changed, so that today the windbreak and fruit business amounts to about 10 to 15 per cent of Minnesota nursery sales.

The first real breakthrough in Minnesota winter apples came in 1922 with the introduction of the Haralson apple from the Minnesota Fruit Breeding Farm. Another important fruit introduction was the Latham Raspberry in 1920. From then on, the Minnesota Fruit Breeding Farm developed a variety of apples, crab apples, plums and pears. Each of these contributed greatly to home and commercial fruit growing in the state of Minnesota. Minnesota nurseries have closely followed public demand in growing varieties and in testing certain varieties to find out whether they were sufficiently hardy to withstand the vicissitudes of the Minnesota climate.

Today we are in a transition period in which tall houses are giving way to lower, more rambling homes, and that means that the nurseries shall have to meet the demand for low-growing accentuation evergreens, which seem to be supplanting the tall pyramidal arborvitae and junipers that have been the standbys for so many years. I have no fear that the nurseries will meet the challenge.

FERTO-POTS — MILLIONS USED PLANT EATS POT

	Per ton C.L.
FERTO-GERM, Compost, Manure	$ 48.00
MULCHNUR. 3-6-3 All Organic	60.00
BONE MEAL RAW IMT.	60.00
GARBAGE TANKAGE, 3½ per cent Am.	18.00
SE-BO-PHOS. 20 per cent T.P. Acid	18.00
FEATHER TANKAGE. 17 per cent Am.	130.00

Write for Price List. Small Quantities.
ALLEN CO., PITTSTOWN 3, N. J.

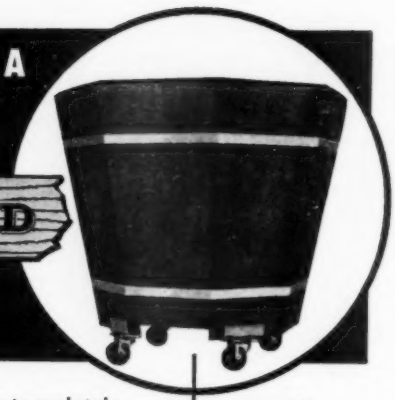
Control Damping-Off
Soil drench protects seedlings and transplants. Quick, economical, easy to use. Ask your Distributor.
Pano-drench
Mfg. by Panogen Co., Ringwood, Ill.
Division of Morton Chemical Company

Revolution in Distribution

Apparently, sales of nursery stock from 1860 to about 1880 were made directly by the owner, who traveled on foot or, more conveniently, by horse and buggy. Obviously, trade territory was limited. It was only in the late 19th century that agents were employed, thus enlarging the trade territory of a given nursery.

Sales methods used were crude and direct. Varieties grown by the nurseries were highly limited, and salesmen required but little preparation or training. Which nursery in

YOU MUST EARN A HIGHER PROFIT!
when you sell
PATIO WOOD
the *modern* line of redwood garden accessories that's more than just competitive.



These days, two things are necessary to maintain a good profit level. Quality must be higher, prices must be lower. PATIO WOOD garden accessories are the most sure fire profit items for you. Here is a *complete* line of top quality merchandise, priced so that YOU MUST EARN A HIGHER PROFIT!

Order direct from manufacturer and START TO EARN A HIGHER PROFIT IMMEDIATELY!

Write today on your letterhead for FREE color catalog.

- square tubs
- octagonal tubs
- gardenette planter
- hanging baskets
- plant walkers
- plant rollers, indoors and outdoors
- copper pans
- exclusive snap on/snap off casters

PATIO WOOD PRODUCTS
835 Commercial St. · San Gabriel, Calif. · ATlantic 7-9374

Reliance
The recommended fertilizer for
AZALEAS and CAMELLIAS
Complete nourishment for acid-soil plants

Send for FREE BOOKLET—this authoritative guide on Azalea and Camellia culture mailed on request

THE RELIANCE FERTILIZER CO., SAVANNAH, GA.

RA·PID·GRO
Makes More Money For You 2 WAYS!

1. Use it!
2. Sell it!

STOCK UP ON RA-PID-GRO NOW

RA-PID-GRO CORP.
Dansville, N. Y.

The Pioneer In Foliar Feeding

ROOTSPRED TREE PLANTERS

Plants seedlings on rough land: Steep, stony, brushy, heavy sods, at 10 times the hand rate and with better survival.

Two models: Standard at $365 and the M-55 at $245 for easier sites.

Write for details.

ROOTSPRED
ST. PETERSBURG, PA.

Mention The American Nurseryman when you write.

BURLAST
POSITIVE PROTECTION

Burlap treated with BURLAST (dry powder mixed with water) resists rot and decay up to six months! Write for details.

HILL'S NURSERY Burlast Division Box 43, Victoria, Tex.

the state was the first to employ agents, I do not know. In 1916 a survey was made by the Northern Nurserymen's Association as to the number of salesmen employed by Minnesota nurseries and the acreage devoted to growing of nursery stock. As I recall them, the results indicated there were about 1,600 agents from Minnesota nurseries traveling over the northwestern territory and Canada, and the total acreage of the state's nurseries was approximately 6,000 acres. High-pressure salesmen had their heyday in the years from 1908 until 1930, and many are the stories told of their prowess. In the early days the salesmen were real pioneers. They contributed in a large measure to the planting of family orchards and windbreaks and to the beautifying of the home.

With the advent of the Northern Nursery Association, many of the abuses were eliminated. I recall that when I first met with the other charter members, we considered each other certainly not as friends, and many harsh words were flung across the meeting table. But, as we came to know each other, we realized that we all had the same ideals, the same aims and the same troubles, and the ethics of the profession gradually were heightened to a standard that we now enjoy and of which we can well be proud.

The salesmen greatly increased the trade territory; nurseries flourished; the general economy was good, and the quality of the stock improved, as did the demand. During the boom time of 1929, we felt we could look forward to a rosy future, but by 1932 we were all gasping for breath. Our rosy future had disappeared, and we did not know what we were facing. Salesmen left the road because they could not sell enough to pay their expenses, and most of the carefully built sales organizations disappeared. With the advent of social security, the wage and hour law, high insurance costs and courts' liberality in granting claims amounting to fabulous sums, the employment of salesmen became neither so easy nor so satisfying as it had been previously. It was immediately after this catastrophic time that the greatest change in distribution occurred. In 1945 there were 188 dealers, while in 1957 there were 557, the latter figure increasing almost every day. These independent dealers, as well as over-the-counter sales organizations, garden centers, department store outlets and independent stands on a city lot or on an acre or two appeared all over the state. While, before 1930, nearly all

RHODODENDRON ROOT ROT

Damping-off and root rot of rhododendron cuttings and plants are usually caused by Rhizoctonia solani, a soil fungus. This fungus is widespread and causes more trouble with rhododendrons than is generally realized. Rhizoctonia can kill small or large bushes or just keep them in poor condition. Symptoms may include chlorosis of terminal leaves or shoot dieback, or in young plants a slow decline and death. The fungus is omnipresent in the soil and appears to be most virulent at high nutrition levels. Microscopic examination of roots and crown is the surest diagnosis. A soil drench with SUNOX and correction of any unfavorable environmental conditions can bring the affected bush back if not too far gone. In severe infestations several applications may be necessary.

Whether for azaleas, daphnes, gladioli, hemlocks, lilies, mountain laurel, orchids, roses, taxus, tree seedlings or evergreen cuttings, you will find SUNOX an effective fungicide and chemotherapeutant in controlling rhizoctonia-caused root rot or damping-off.

See your dealer, or send coupon to one of these suppliers:

Vaughan's Seed Co.
85 White St.
New York 13, N. Y.

Doggett-Pfeil Co.
194 Mountan Ave.
Springfield, N. J.

Hubbard-Hall
Chemical Co.
P. O. Box 790
Waterbury, Conn.

C. A. Reinhard
Pluckemin, N. J.

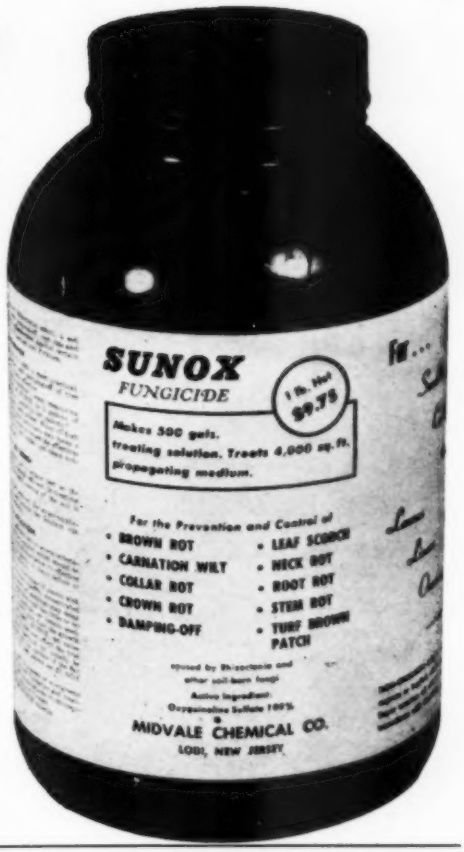
☐ Please send 8-page SUNOX booklet

☐ Send 1-lb. SUNOX (check for $10.25 enclosed, includes 50c for postage and handling).

NAME .....

ADDRESS .....

CITY..... STATE.....
4158



MIDVALE CHEMICAL COMPANY
LODI, NEW JERSEY

nurseries in the state were employing salesmen, today there are only four nurseries conducting an agency business in the state of Minnesota. Most of the agency business went into the wholesale trade. Exclusive landscape nurseries began to appear, led by the Holm & Olson organization, to add another new factor to this sweeping change in distribution.

NEW YORK COURSE

[Continued from page 13]

Bailey Hortorium, and other members of the Cornell staff.

Local horticultural problems for New York state were covered in a panel by Prof. George C. Kent, head of the department of plant pathology; Prof. Robert Langhans, floriculture; Dr. Arthur Bing, Cornell ornamentals research laboratory, Farmingdale; Dr. D. S. Welch, plant pathology, and Prof. John F. Cornman, turf and ornamentals. Charles Mouquin moderated the panel discussion in which these persons took part. Topics receiving the nurserymen's attention and questions included nematodes, chlorosis, tip burn in dogwood and control of the lawn and nursery weeds, Veronica filiformis and crab grass. Endothal as parent material (disodium 3,6-endoxahexahydraphthalate), one pound of active ingredient per acre in 50 to 100 gallons of water per acre, is useful as a control measure for veronica at any time in spring or fall when grass is growing actively. Endothal, originally formulated as a defoliant, contains ammonium sulphate and is also an effective contact herbicide.

The value of PAX as a crab grass killer came in for comment by research men and nurserymen using this material.

Weed control materials were also shown nurserymen during their tour of research during the morning of December 4. In two years' tests, Simazine has proved to be an effective weedkiller among nursery crops and ground-cover plantings. Effective control with a good margin of safety from crop damage follows the use of granular formulations of Simazine applied to clean soil, carrying adequate moisture and temperature for prompt seed germination. Fall treatments in cool or winter temperatures have also been suc-

MG* POTS

INTRODUCES THE POTS THAT WON'T FALL APART!

. . . . because they have stapled bottoms, made of long-lasting roofing material.

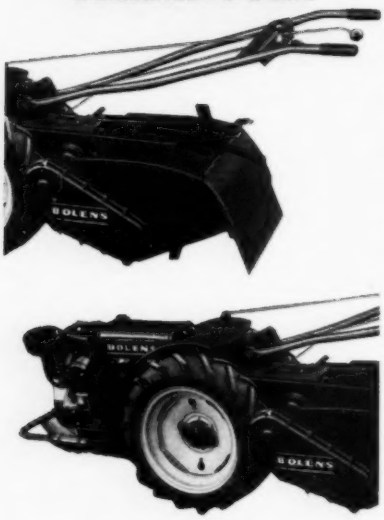
Especially adapted for potting roses and shrubs.

MG POTS — PERFECTED BY POTTING EXPERTS AT . . . MOORESTOWN GARDENS

Send for a complete set of samples of the new MG pots. Just $1.00.

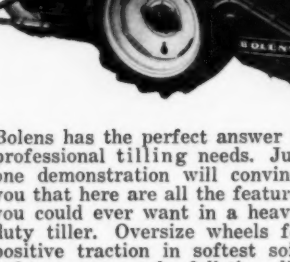
***MOORESTOWN GARDENS (of course)**
55 E. Oak Ave. Moorestown, Burlington Co., N. J.

BOLENS
9.2 HP.
TILLMASTER



Bolens has the perfect answer to professional tilling needs. Just one demonstration will convince you that here are all the features you could ever want in a heavy-duty tiller. Oversize wheels for positive traction in softest soil; safety reverse and a full-time differential for quick turning in tight spaces; handles move up or down, swing to either side and lock in place; complete versatility with two rotor speed ranges and two travel speeds; perfect balance and stability make handling so easy; rugged stamina needed for constant commercial use. Full 20" rotor overhangs tires, lets you till between close-set rows. You'll get all this,

PLUS SAFE, SIMPLE CONTROLS, POSITIONED WHERE YOU NEED THEM



1. Finger-tip throttle control.
2. Instant height control locks handles in any of six convenient heights.
3. Engine clutch controls forward, neutral and safety reverse.
4. Foot lever disengages rotor.
5. Foot-operated turret control permits handles to swing to either side and lock in place.

Send postcard today for free literature on the Bolens Tillmaster

BOLENS

fmc BOLENS PRODUCTS DIVISION
Food Machinery & Chemical Corporation
Port Washington 69, Wisconsin

cessful. A minimum of four pounds of active Simazine per acre is usually required for long residual control for a complete growing season or longer. Band application of Simazine to cover the plant row and nearby soil not reached by Rototiller action has also been satisfactory and is preferred by some nurserymen. Simazine controls essentially all weed species as germinating seeds or young seedlings. This includes crab grass, portulaca, pigweed, bluegrass, chickweed, veronica and other common weeds.

Simazine can be used to control established quack grass in nursery rows, but is less effective than its relative, Amino-triazole, for control of chrysanthemum weed, Artemisia vulgaris. For quack grass control, eight pounds of active Simazine per acre in 100 gallons of spray mix used in early spring on young growth of quack grass while nursery stock is still dormant is effective in rose and evergreen plantings. Fall treatment of regrowth quack grass after late summer cultivation is also effective.

Automatic Weeder

A Buddingh InRow weeder was shown New York nurserymen as a type familiar to the vegetable growers and finding several uses in the production of nursery stock. Weed control is well done by this machine, which also hills up crops or tears down a hill. The machine is easily adjusted, and rubber fingers or metal springs can be selected for use according to job and soil type. Action is provided by metal blades, which catch in the soil and force rotation as their supporting carriage moves ahead.

Results with container-grown stock using various media—peat, Perl-Lome, soil, sand, vermiculite and 1-1-1 soil-peat-Perl-Lome mix—were shown the nurserymen in terms of the root ball formed by Euonymus fortunei in one season's growth from cuttings. The plants received daily watering and fertilizing.

Plants from sand showed small top and root growth. Maximum growth of root and top occurred in peat and in mixtures of peat and Perl-Lome, equal parts by volume, as well as in 1-1-1 mix. The light weight of the peat-Perl-Lome mix was of interest. Similar top and root growth occurred with other plants, including Taxus media hicksi, Juniperus chinensis hetzi and Juniperus pfitzeriana.

Mulching with sawdust three inches deep was found to reduce water loss from containers under

GIVE DRY WEATHER THE BIRD...

RAIN BIRD, of course!

There are handsome dividends to be earned in providing your own weather for crops and pasture... there's no better way to do this than with Rain Bird Sprinklers. Get water where you want it, when you want it!

Single installations have more than doubled—even tripled—yields and insured stability of crop income. *See your dealer.*

Write for free information.

NATIONAL RAIN BIRD SALES & ENGINEERING CORP.
Azusa, California
RAINY SPRINKLER SALES
609 West Lake Street, Peoria, Illinois

Mention The American Nurseryman when you write.

FAFARD

peat moss and peat humus

Priced attractively to put you in an excellent competitive position. Pure sphagnum peat moss, 98% organic. Packages protected by polyethylene liner or coating. Wide choice of sizes. Peat moss, 1-peck to 7-cu. ft. bales, Peat humus, 2½-lb. to 100-lb. bags.

CONRAD FAFARD, INC.
P. O. Box 744 LOcust 7-3316
Springfield, Mass.

FOR HEAVY DUTY TILLING...
MODEL TA20A OR TA28B
Ariens / trans-a-matic
WITH NON-SLIP DIFFERENTIAL
✓ POSITIVE TRACTION!
✓ FINGERTIP STEERING!
✓ 9 H.P. OR 16.5 H.P. WISCONSIN ENGINES
✓ BUILT FOR LONG DEPENDABLE SERVICE!
Ariens trans-A-matic TILLER

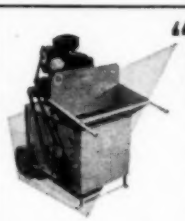
For full information, write Ariens Company, 141 Calumet St., Brillion, Wisconsin

standardized temperature and humidity. The smaller the sawdust particle the greater was the moisture conservation. A 1-inch layer was much less effective than a 3-inch layer of sawdust. Sawdust mulches have a measure of weed control. This fact may be of value for container growing, since many weeds become established in spite of soil sterilization prior to planting. Mulches, however, have limitations in that plants root in them readily and such surface rooting will be subject to winter damage from low temperature. Mulches also keep stems moist and retard hardening in late summer, hence bark splitting may result in the fall or spring from early or late frosts.

Mulching for moisture conservation in the garden is likely to result in more effective use of rainfall and irrigation. Soil temperatures are moderated. Danger from bark splitting after early fall frosts is more likely under field than under lath house or frame culture, but it is a factor to be reckoned with.

Viability of nursery stock is being studied by Roy Mecklenburg as a graduate student project.

Nurserymen also saw a demonstration on handling stone and heard suggestions on the uses and handling of stone by Robert Mueller, formerly of Cornell's buildings and grounds department. An excellent brochure on stone, its uses and methods of estimating jobs, was available to nurserymen at this stop on the tour.



"NEW ERA" SHREDDER

SAVE TIME AND LABOR BY DOING MORE MECHANICALLY AND LESS MANUALLY—DOES ALL THE JOB—NOT JUST PART OF IT.

Several Models Available. Write for Details.

TORMEY'S
Phone: AT 7-0101
P. O. Box 428-T
TEMPLE CITY, CALIFORNIA

NEMADRENCH

A new soil fumigant for control of nematodes. Can be used on established plants such as roses, azaleas, etc.

	Per gallon
1 gal.	$8.50
4 gals.	8.25
5-gal. can	7.85

F.O.B. Elkton

Write for directions

EDCO CORP.
Elkton, Md.

Rose Disease Control

Stanley Melching, graduate student, department of plant pathology, reported on results of tests on fungicides suitable for control of rose diseases in outdoor or garden plantings. Plots were replicated four times and innoculum sprayed on the plants prior to using the fungicides. Tests have been repeated for a number of years; the following results were for the 1958 wet summer test:

Products tested included Cyprex (1.5# and 1.0#), maneb, Phaltan, zineb, M-Z-F, ferbam, captan (50 and 80), several complex formulations and a sequence of products. All gave good control of black spot. All gave good control of powdery mildew, except zineb and ferbam, which gave fair results. The two Cyprex applications caused excessive distortion, severe discoloration and slight burning, and captan (50) caused slight discoloration, but none of the other products named, used individually, resulted in any chemical injury to foliage. Only Phaltan left a visible residue.

New Pesticides

Control of several woody ornamentals pests with newer insecticides was a project of S. W. Meso. During the 1957 and 1958 seasons, some of

ForestView TANDEM PLANTER
.... cuts tree planting time and costs

Twin-Seat Design

- Exact, positive spacing with exclusive timing wheel
- Correct planting depth on any terrain with special contour lever
- Exclusive, scalloped coulter wheel for fast, easy cutting of sod, etc.
- Finest trencher shoe made —insures maximum survival.

The most rugged, versatile tree planter ever built, the ForestView Tandem Planter assures fast, low-cost planting of seedlings, lining-out stock, potted material or other small plants. Lever controls adjust to even the most rugged terrain. Newly designed trencher shoe plants potted material and liners without damage—spaces, plants smoothly and accurately without churning up soil. Precision alignment of stripper bar prevents clogging by weeds and undergrowth. Commercial steel construction throughout—ball-bearing mounted heeling wheels.

Write today for literature and prices—FREE

Ask about dealer franchises in your area.

FORESTVIEW EVERGREEN NURSERY
Dept. AN Germania, Pa.

MIST-A-MATIC

Reg. Pat. Applied For

AUTOMATIC MISTING PROPAGATION SYSTEM

ONLY SYSTEM WITHOUT CLOCKS TO SET

So Simple — So Dependable — Trouble-Free
Proved by Leading Growers

Write for Free Illustrated Description

E. C. GEIGER CO., P. O. Box 270, NORTH WALES, PENNSYLVANIA

Learn PROFESSIONAL LANDSCAPING
Easily & Quickly AT HOME

INCREASE YOUR EARNINGS by rounding out your operations! More and more nurserymen are discovering that a thorough knowledge of professional landscaping—now taught you at home by my new Simplified Methods—pays big dividends in increased sales. Complete training, in residential & commercial landscaping, in horticulture—in the growing, propagation, use and maintenance of ornamentals. Latest information on everything new—new propagation methods, latest insecticides, gibberellic acid, and modern landscape designing. Our training program used by hundreds of nurserymen **coast to coast** in training and upgrading employees. Plant lists and specialized information for all sections. Attractive diploma and lifetime consultation service for all graduates. **Send for FREE Booklet. Air mail reaches us overnight.**

NATIONAL LANDSCAPE INSTITUTE Dept. N-19, 11826 San Vicente Blvd., Los Angeles 49, Calif.

BALED SHINGLE TOW
(CEDAR SHAVINGS)
WM. A. JOHNSTON
1522 N. W. Thurman St. PORTLAND 9, ORE.

NOW! 4 WAYS TO GET A
FLOC-FLO PRODUCER
PRODUCTION FLOCKING MACHINE
• CASH • 24 MONTH—TIME PAY PLAN
• 18 MONTH—5 PAY SEASONAL PLAN • RENT
FLOC-FLO ENGINEERING DESIGN, INC.
1043 W. RANDOLPH ST.—CHICAGO, 7, ILL.

the newer commercially prepared chlorinated hydrocarbon and organic phosphate insecticides were compared in field tests for control of several insects and mites.

Applications of BHC and aroclor (1.25 per cent each), dieldrin (3 per cent) and DDT (5 per cent) successfully controlled white pine weevil. Treating plots of red pine with DDT (25 per cent) and Sevin (13 per cent) inhibited infestations of European pine-shoot moth. Applications of Diazinon (25 per cent), DDT (50 per cent), Delnav (four pounds/gallon) and Ethion (25 per cent) reduced infestations of eastern tip moth on Japanese black pine. Thiodan (25 per cent) reduced the infestation of boxwood psyllid. Sevin (13 per cent), malathion (57 per cent) and Diazinon (25 per cent) showed good control of boxwood leaf miner. Spruce-gall aphis infestation was controlled by BHC (11 per cent), malathion (57 per cent) and lime sulphur. Taxus bud mite infesting Hicks yews may have been checked with dieldrin (15.8 per cent).

Infestations of taxus bud mite were found in Nassau county. It is not certain whether this particular mite is confined to a specific area on Long Island or whether this pest occurs in other localities.

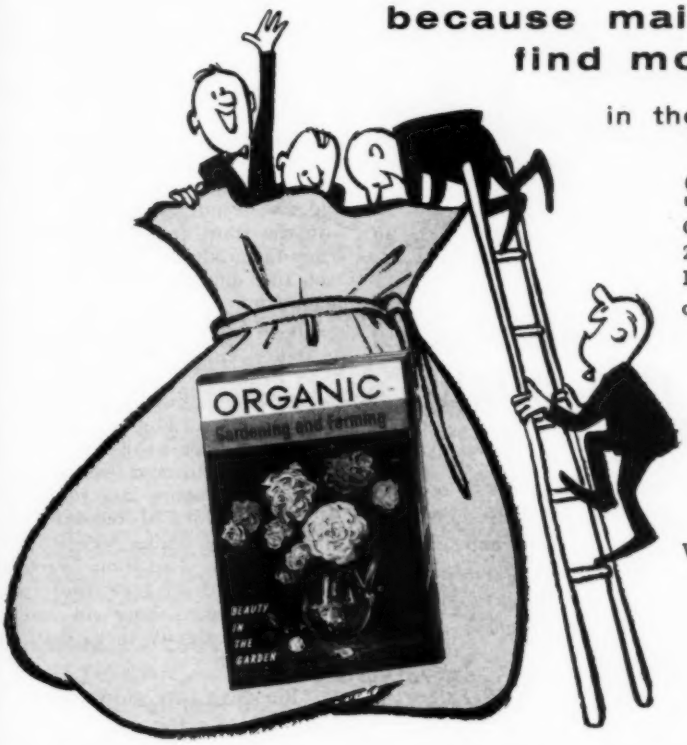
Campus Plantings

Weather conditions prevented the scheduled tour of landscape plantings. George Swanson, of the buildings and properties department at Cornell, reported briefly on seven planting projects of recent date and explained the job record system used and the budgeting for each project.

Mr. Swanson also gave details of one Cornell Plantations project located on campus. This project, under advisement of Dr. Clement Bowers, includes a soil-renovation program for ericaceous plantings. Large blocks of 1,000 to 2,000 square feet had all surface soil for a foot in depth replaced with German peat moss, local humus peat (Junius peat bog) or a mixture 50 per cent by volume of each of the two. The work was completed two years ago and plantings have gone through two summers without loss. Azaleas are the main planting, with some cherry laurel and other plant species. The German peat is retaining its resilience. The success of the planting will point to the possibility of using peat alone as a media for the garden culture of azaleas.

Troubles encountered with earlier plantings of azaleas in specially prepared beds at Cornell include, for

WELL WORTH LOOKING INTO!



because mail order nurseries find more spring sales

in the only garden magazine that sells an idea!

Smart nursery advertisers get results in *Organic Gardening and Farming*. Over 200,000 readers respond to the ads they see. In 1958, 97 new advertisers used our ad columns. Advertisers say:

"Performed beyond our expectations."
GEO. W. PARK SEED CO.

"Count thousands of customers . . ."
BURGESS SEED AND PLANT CO.

"Some of the handsomest sales results we have ever experienced."
adv. agency for W. ATLEE BURPEE

Write today for more details.

ORGANIC
Gardening and Farming
Emmaus 9, Penna.

SNOW FENCE is IDEAL for **WINDBREAKS SHADING ENCLOSURES LATH HOUSES**

PROMPT SHIPMENTS

Special Shade Fence—58 to 60 per cent Shade
Standard Snow Fence—43 to 46 per cent Shade

Write for specifications and prices

PHILIP HARTIGAN, Road Equipment and Supplies
P. O. Box 283 **HONESDALE, PA.**

deep beds, gradual sinking of the surface as peat, logs and the like decompose. Excessive drying out occurred in summer, once the beds began to settle, and air pockets formed belowground; finally, injury occurred from rodents overwintering in the beds and using the roots of the plants as winter food supply. Shallow plantings followed by continued mulch were more successful.

A new film, "Basic Landscape," distributed through the United States Department of Agriculture and made in cooperation with the American Association of Nurserymen, was shown at the meetings. This presentation, done from sketches, establishes a practical approach to home beautification. It so emphasizes the effectiveness of a few well placed plants that it should encourage many viewers to begin correctly and provide incentive for continued development along a logical plan for utility, beauty and pleasant living for the family. Every nurseryman can use this film to advantage in garden clinics, garden club projects and in conferences with customers, particularly if he follows it up by attractive displays or photographs of actual plantings.

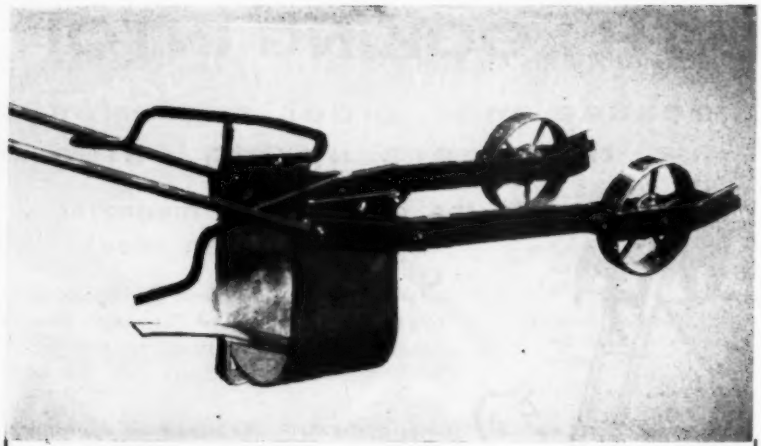
Trend of Times

At noon, after the tour, Edwin Kirk, of the state department of agriculture and markets, reviewed some of the economic trends in the country and discussed several of the current problems of the trade. Increasing export-import problems are being reflected in the restrictions that have been placed on plant imports by Canada, which may result in the removal of exemptions which Canadian nurserymen presently engaged in exporting plant material to the United States enjoy under plant Quarantine 37.

In various parts of the nation renewed efforts are being made to force public officials to use only civil service technicians in the preparation of landscape and architectural plans and specifications for public contracts, Mr. Kirk pointed out. In view of the tremendous volume of public construction, a drastic departure from the present pattern of balance governing the protection of business interests could be disastrous, he declared.

Something approaching economic stability will probably prevail in the period immediately ahead, Mr. Kirk believes. This condition will stem from the fact that production is fairly well in line with consumption in most fields. However, with the bumper crops, including plant products, reported during the past harvest season, some weakness could develop in that area.

The speaker urged nurserymen to



THE NEW ENGLAND TREE DIGGER AND ROOT PRUNER

This sturdily built digger is now available in 12-inch, 18-inch and 24-inch sizes. Orders can be shipped the same day as received. We use top-quality spring steel blades, full ball-bearing wheels and solid steel handles. Attachments available for direct tractor or side pulling. Extra blades available in all sizes. The entire cost of this machine can be saved in labor with a full day of digging or root pruning.

Ask for descriptive folder and price list.

Also available: SEEDBED DIGGER—Ford tractor drawn. Other tractor attachments can be built. This is the greatest timesaver yet introduced. It does a perfect job on the roots. Adjustable to several depths.

NEW ENGLAND TREE DIGGER AND ROOT PRUNER CO.
757 Washington St. Fairhaven, Mass.

Save Time! Save Money!

STAMP YOUR OWN TAGS...
With Rubber Stamps

FORSYTHIA

At a low cost (80c a single line) you can own rubber stamps of stock and company names. It's so easy, so economical to print tags, invoices, etc., in your slack time.

Write Today For Price List & Details

WATERS RUBBER STAMP CO.
3344 Northwood Toledo, Ohio

ULLMAN CLEAT
Strong, reliable, protects flowers from damage in transit, satisfies customers and insures better prices. The Ullman cleat grips sides of box, holds stems to bottom. Send for prices.
THE ULLMAN CO.
Northampton, Mass.

NEED SHADE?
Build a neat and attractive shade house with long-lasting Lumite, any degree of shade. Write for competitive price list.
LAKE SAMMAMISH EVERGREEN NURSERY
6127 Highway 99, S.
Everett, Wash.

support proposed legislation which would permit mandatory minimum standards regulating the sale of nursery stock in the state. A hearing to assist in the promulgation of rules and regulations pertaining to inspection, certification and sale of bench-grown rose plants in the state was mentioned.

Concluding comments brought out the fact that there had been a great increase in the occurrence of insects and disease on plants being shipped into the state and that action was being taken within the state to control the dangerous threat of soil nematodes.

The afternoon sessions began with a talk, "Good Design Upgrades Your Business." Prof. Charles Cares stressed the fact that more careful planning toward simplicity and naturalness will lead to restful, interesting effects. Color and seasonal interest lend high points in garden interest. Color slides of modern, well-planned communities were used to illustrate the discussion. Professor Cares stressed the opportunity that the nurserymen have in lending beauty and dignity to gardens and communities.

Blooming Chrysanthemums

Dr. John Seeley, head of the department of floriculture and ornamental horticulture at Cornell, told why garden chrysanthemums should be grown as potted blooming plants for late April, May and early June sales. For a Mothers' day crop, rooted cuttings should be potted March 1 and pinched or topped March 8. For Memorial day, rooted cuttings should be potted March 15 and topped March 20. The flowering time will vary somewhat depending on the variety. Day length control is not necessary after planting. A single pinch is best; larger plants can be obtained with a second pinch, but this complicates the schedule.

One cutting should be used in a 3-inch pot, two in a 4-inch pot. A 5-inch pot will take three or four cuttings. Temperature is important. The minimum night temperature should be 60 degrees, with 70 to 75 degrees in the daytime. Glass or plastic houses can be used.

Advantages of spring production and sales are: (1) Plant is in flower and easier to sell; (2) quick crop: over-all growing time is nine to 10 weeks; (3) relatively low-cost item; (4) customers get two plant uses for the price of one; after plant has finished blooming, it can be planted in the garden and cut back to produce a full crop of flowers in the fall; (5) plants not sold in spring can be han-

FOR PREMIUMS OR TIE-IN SALES!

Monsanto's Famous

KRILIUM

SOIL CONDITIONER
(Merloam Formulation)

ONLY **12¢** PER POUND

1 LB. CAN
Retail Value $1.39
Your Cost 12¢

F.O.B. St. Louis, Mo.
(MINIMUM ORDER 5 CASES)
EITHER SIZE OR ASSORTED

DETAILED USE INSTRUCTIONS INCLUDED WITH INVOICE

2 OZ. FOIL PKG.
Retail Value 29¢
Your Cost 1½¢

A QUALITY ITEM FOR SALES PROMOTION

Last chance, so order now! We are closing out entire stock of Krilium 1 lb. and 2 oz. sizes at 12¢ per lb. F.O.B. St. Louis (Full freight paid on shipments of $100 or more.) Other sizes already gone. Krilium can help you sell more plants, rose bushes and nursery stock and help your customer grow them better. Order all you want while supply lasts. Minimum order 5 cases, either size or assorted and cash with order or C.O.D.

Just imagine — 10 cases of each size will give you 480 1 lb. and 1440 2 oz. packages for sales promotion for only $79.20. Remember we pay freight on shipments of $100 or more.

Available in Cases of
1 LB. CANS — 48 cans in Each Case
2 OZ. Foil Packages — 144 in Each Case

Send Coupon Now!

Corneli Seed Co.
101 Chouteau Ave.
St. Louis 2, Mo.
Telephone: CHestnut 1-7790

NOTE: Minimum order 5 cases, either size, or assorted.

Please ship the following cases of Monsanto's Krilium Soil Conditioner:

____cases of 48 1-lb. cans ..... $5.76 per case____
____cases of 144 2-oz. foil pkg. .... 2.16 per case____
Total $

Payment: ☐ Check enclosed ☐ Money order enclosed or ☐ C.O.D.

NAME _____
COMPANY _____
ADDRESS _____
CITY _____ ZONE____ STATE_____

dled as in No. 4 and sold in the fall; (6) customer gets clean plant; (7) if nonblooming plants are sold, some plants in flower will show customers what the blooms will be like in the fall.

Disadvantages are: (1) A plant-growing structure with heating system is necessary; (2) watering, spraying, etc., are necessary during busy spring work period; (3) if chrysanthemum plants are sold in the spring, some sales may be lost in the fall.

Not all chrysanthemums react favorably in spring. Some recommended varieties are:

White—Chris Columbus, Classic, Calcite, Glacier and Ostosa.

Yellow—Yellow Chris Columbus, Lemonade, Yellow Spoon, Pomponette, Ming, Honeycomb and Moonlight.

Bronze—W. P. Snyder, Lipstick, Harvest Bronze, Mona, Mrs. du Pont, Bronze Queen and Caprice.

Lavender and pink — Joybringer, Spellbound, Wanda, Mischief and Major Cushion.

Packaged Plants

Rocco J. Calamia, George J. Ball, Inc., West Chicago, Ill., brought an exhibit of modern pots for annual and other herbaceous ornamentals, including pansies, perennials and ground covers such as pachysandra. The use of small self-service packs, either individual Jiffy pots or units of six plants in a Market Pak, has largely eliminated former sales methods used for annuals in which the plants were cut out of large wooden flats and wrapped in paper at the time of purchase.

Mr. Calamia suggested at least 15 plants in a container for an attractive sales pack in self-service units. They can easily be kept fresh and eliminate waste. The Market Pak is easy to display and to handle. The Pak protects Sunday shoppers who wish to continue their drive before returning home to set out their plants. Planting can be done in the cool of the day while the plants are still fresh.

Peat moss and Jiffy pots make plant production easier and eliminate 98 per cent of the transplanting shock. Well-watered plants can be set in moist soil without removing the pot. Roots grow through the wet peat moss sides and rapidly become established in garden soils of good tilth.

Display Pointers

Mr. Calamia suggested several procedures in displaying Flowerpak and Jiffy pots. These are good items to keep up off the ground on racks. Individual pots or Paks can be grouped in larger units, overlaid with cardboard and tied to keep

ROUGH BROTHERS
Low-Cost Convertible
PLASTIC HOUSE
PRACTICAL! VERSATILE! SIMPLE!

Complete with Automatic Ventilation for LESS than $900.00

Size 16' x 97'6"
★ SAVES LABOR
★ REDUCES UPKEEP
★ NO SAGGING PLASTIC ★ NO PAINTING
★ LONGER LIFE--Reinforced by Rustproof Wire

Write for complete information
ROUGH BROTHERS
4229 Spring Grove — Kirby 1-6180 — Cincl. 23, Ohio
Manufacturers & Builders of America's Finest Greenhouses

NOW . . . A SPECIAL
Taubman
BLACK INDELIBLE MARKING PEN

TO MARK WOOD LABELS AND TAGS

MODEL #329 N

6½ INCHES LONG 39¢

Fed. Tax included

- Disposable . . . No refills
- Quick drying
- Fade proof • Run proof
- Not affected by rain, snow, insects, soil bacteria

INQUIRIES FROM WHOLESALERS INVITED

SEND YOUR TRIAL ORDER FOR ONE DOZEN PENS TODAY

FOR QUICKLY IDENTIFYING TREES, SHRUBS, PLANTS

SAMUEL TAUBMAN & CO.
176 Madison Ave. New York 16, N. Y.

THUEMLING PRODUCE and TRUCK BROKERS

Truckers, transporting nursery stock between any points within the United States. Refrigerated, insulated or air-vented trailers.

Specify "Thuemling" when ordering.

Phone: 5-4512 or 5-4511, 24 hours of the day.

Box 485 Laurens, Iowa

Mention The American Nurseryman when you write.

WATCH FOR NEW LOWER PRICES
on clear and black
POLYETHYLENE and SARAN SHADE CLOTH

Write, wire or phone:
CApitol 2-4600 for
IMMEDIATE DELIVERY

AMERICAN ASSOCIATED CO.'S
Box 272, Red Bank, N. J.

The "Humidomist" System for Intermittent Misting

Circular 566A tells the story.

SUPREME ELECTRIC PRODUCTS CO.
194 Vassar St. ROCHESTER 7, N. Y.

customers from moving plants from one container to another.

Mr. Calamia indicated the trend toward self-service in nursery centers and said that where records were available it was quite possible to double the amount of sales, using only half the usual help. Customers tend to wander about, and women, particularly, are likely to purchase more than they first intended to.

The story of the "Complete Nursery Garden Center" was effectively presented by Louis Weinstock, Poundridge Nurseries, Pound Ridge, N. Y., and his staff, James Pasciuti, Jerome Bryers and Wesley Lent. Those who visited Poundridge Nurseries at the summer meeting of the New York Nurserymen's Association have an appreciation of the term "nursery garden center," for it is truly a nursery in setting and fact. Personnel associated with the nursery are plantsmen as well as businessmen. Service is keyed to modern living as well as to customer convenience.

Annual Meeting

At the 1958 annual meeting, held in conjunction with the banquet December 4, Sidney Bennett, Valhalla, made his report as secretary-treasurer. Resolutions were read on the deaths of E. B. Stedman and Howard Taylor, and a moment of silence was observed.

The new officers for 1959 were announced: A. L. Synesael, Jackson & Perkins Co., Newark, N. Y., president; Hewlett Lewis, Lewis & Valentine, Greenvale, vice-president, and Clarence Vanderbrook, C. W. Stuart & Co., Newark, secretary-treasurer.

Sidney Bennett was presented with a pair of field glasses by Powers Taylor, Rosedale Nurseries, Hawthorne, in recognition of devoted service as association secretary. Louis Weinstock was presented with a wrist watch by Peter Costich on behalf of the association and in recognition of his term of office as president of the New York State Nurserymen's Association.

Mrs. Walter Heasley, Jr., Ithaca, was introduced by President Synesael as chairman for the Federated Garden Clubs of New York State of the committee for landscape improvement of the approaches to the New York state throughway. Mrs. Heasley announced a contest sponsored by Mrs. John Lane open to clubs and civic organizations for accomplishment in the federation-sponsored project.

Rev. and Mrs. Herman Bielenberg presented a program entitled

COLD STORAGE FACILITIES

Specialized temperatures —for Rosebushes . . . bulbs . . . valley pips . . . nursery stock . . . greens . . . cuttings

Low insurance rates; private siding on N. Y. Central R.R.; truck and trailer platforms; pool car distribution; trucking facilities for local deliveries.

BRONX REFRIGERATING CO.
522 Westchester Ave.
New York 55, N. Y.
Tel.: MElrose 5-4041

NURSERY TAGS
"Weather Resistant"

Size ½x6 ins.
Prices per 1000—Tag Stock

1000 to 4000	$1.35	20,000	$0.90
5000 to 9000	1.10	50,000	.75
10,000	1.00	100,000	.65

- Made of Water-resistant Paper Stock
- 8 Colors Available
- 9 Sizes and Styles
- Sheets of Ten for Typewriting

Write Today for Prices and Samples

PREMIER SOUTHERN TICKET CO., INC.
P. O. Box 5 CINCINNATI 7, O.

A beautiful healthy plant deserves a UNION PLASTIC POT!

Write for prices.

UNION PRODUCTS, INC.
Leominster, Mass.

USE NURSERICANS FOR ADDED PROFIT

NOW AVAILABLE IN 6 SIZES
1 GALLON* THROUGH 6 GALLONS*
*Trade Designations

THE Lerio CORP.
Mobile, Ala. P. O. Box 1050
Valdosta, Ga. P. O. Box 567

A. M. & SON
LEONARD
PIQUA, OHIO
Knives - Shears - Pruning Tools
Nursery Spades-Grafting Supplies
Write for Catalog

Screen Type PICKET FENCE

. . . ADDS *PRIVACY* TO YOUR LANDSCAPING

Most homes need special screening against unsightly views, around play areas, swimming pools or for containing small animals. Form nice backgrounds for plantings. Dowel construction—easy to assemble. Stringers, posts and half-round palings all peeled, white cedar. Shipped K. D. or in 8 ft. assembled panels. Write for catalog giving heights, etc.

Also **Catalog shows Old English Post and Rail Fences — 2 to 5 rail — all types. Have installations throughout U.S.A.**

Gates, Lanterns, Rustic Tables and Settees.

Shipped from Toledo or our W. Va. Yards.

WOOD PRODUCTS CO., Toledo, Ohio

"Trees." Reverend Bielenberg is an accomplished photographer, humorist and artist.

Supermarket Techniques

The final sessions started promptly after a cafeteria breakfast for the nurserymen. The program opened with a discussion by Wendell G. Earle, department of agricultural economics, Cornell. Professor Earle told of a new course for executive training begun this year for supermarket managers. Growth of supermarkets has increased mainly in the cooperative and volunteer or independent chains. Expansion has come in health and beauty items and other nonfood items where the margin approximates 31 per cent as opposed to 18 per cent for food items.

Ideal items for supermarkets include those which move in volume and are quickly disposable. Items must also be easy to display and to handle or carry. If nursery stock fills these requirements, it may well be sold in greater quantity by chains. Difficulties, however, include finding an adequate source of supply of a standard product as well as securing help trained to handle nursery products.

A feature of the northeastern regional marketing project for New York was briefly reviewed by H. Royce Gully, who is conducting a survey of customers' preference in regard to container versus B&B pack of the same kind and size of plant material. Initial results indicate that either pack is equally appealing to the customers. Further aspects will cover the matter of plant performance and consumer reaction. A number of New York nurseries are cooperating in this project, and further reports will be made.

WOOD LABELS

For Nurserymen

DAYTON FRUIT TREE LABEL CO.

Ray and Kiser Sts.
DAYTON, O.

Sales Promotion

Sales promotion and nursery garden center operation were covered in the concluding portion of the program. This included a brief paper from Dr. Joseph E. Howland, assistant to the president, O. M. Scott & Sons Co., Marysville, O. The paper was read, as Dr. Howland was unable to be present.

He opened his presentation by noting that many nurserymen find that some of their best customers, who had embarked on extended landscaping projects, have moved away. Dr. Howland stated that the average home occupancy in America is now less than five years and pointed out that a nurseryman's customer of as little as five years ago is likely to be in another territory.

He said that the typical Scott dealer in 1959 will garner 75 per cent of his dollar volume from Scott products that did not exist five years ago, and stressed the fact that the profit

IT COSTS NO MORE
(and in most instances less)
FOR OUR PACKING OF
Nursery Burlap Squares and Rolls

Write for prices and samples

L. ATKIN'S SONS
P. O. Box 167 Rochester, N. Y.

New Lindig Soil Shredders Process 20-40 Cu. Yds. Hourly

Here's increased soil shredding production for nurserymen and landscapers. LINDIG introduces the Models L-25 and L-40 Soil Shredders to meet large capacity requirements for operations with front-end bucket loaders.

These new machines with conveyor load materials directly to trucks or stockpiles. Engineered for long, hard service, they feature:

- Patented Lindig Dual Shredder Assembly with tough steel Hammers; Special design allows large, foreign objects to by-pass rotors without damage.
- Large Hoppers to maintain continuous feed where desirable.
- 6.70 x 15 Pneumatic Tires.
- Optional Gas or Electric Power; operating rotor speed is 1,100 RPM.
- Tow bar hitch is mounted on castered pneumatic tire wheel for easy maneuvering or towing.

You'll find the new Model L-25 or L-40 the answer to all soil shredding, blending and aerating needs. Wet or dry, all types of materials are thoroughly and uniformly processed. Write for complete details and specifications for the L-25 and L-40 units.

Other LINDIG Soil Shredders range from 3 cu. yd. to 100 cu. yd. hourly production rates. The Lindig Line is sold and serviced through a nationwide dealer organization.

EARTH SHREDDING EQUIPMENT
Lindig Manufacturing Co. INC.

1875 WEST COUNTY ROAD C
ST. PAUL 13, MINNESOTA

THE HIGHEST COMPLIMENT

The regular customer who sends his order and says, "Ship at current prices." He knows you will ship true to grade at let-live prices. Many nurserymen order their price lists from us without asking price. That is our highest compliment.

COURIER NURSERY PRINTERS

Phone: TWinbrook 3-5113 Murfreesboro, Tenn.
Associate Member A. A. N.—We Specialize in Nursery Price Lists.

TINA

The leading German brand.
Request our illustrated catalog.

HERMANN A. WIRTH
Levittown, N. Y.

RAFFIA

Headquarters for
A. A. Westcoast and
X. X. Superior Raffia
and
GOODRICH BUDDING STRIPS
Can make immediate shipment.

THOMAS MEEHAN & SONS
482 W. Germantown Pike
Plymouth Meeting, Pa.

makers are the all-new items—the new roses, new trees and new evergreens. "If you are still relying on privet, peegee hydrangea, Anthony Waterer spiraea and barberry," he said, "the world has passed you by, and the most profitable business will go down the street to your more alert colleague."

Potential customers stop only once. People buy where they can do 1-stop shopping. If the homeowner must patronize the supermarket for his convenience items like grass seed, fertilizer and weedkillers, he will go there for trees and shrubs. The bright future of the nursery trade belongs to alert businessmen who devote themselves to finding out what results the homeowner wants, then alter their offerings and sales methods to supply the plants and products and services profitable to both buyer and seller.

Seven Avenues to Profit

Dr. Howland stated that fair prices are no hazard to increased sales. Buyers find money when one's offerings are worth more to them than the money itself. He advised the nurserymen to stop selling merchandise and start selling the fulfillment of dreams. The following 7-point program was recommended for increasing garden center sales:

1. Build mass displays and encourage quantity buying for big savings. At least 100 bags of fertilizer are needed in a pile to sell 10-bag lots. When less than 100 bags are displayed, the potential buyer settles for two or three, because a 10-bag purchase makes him feel that he is buying the whole pile.

2. Create sales departments. Collect everything needed by a rose grower in the rose department, everything needed by the bulb grower in the bulb department, even though this may mean some duplication of inventory.

3. Advertise traffic builders—items offered at prices recognized as good buys. Charge the loss (loss of profit) to advertising. You must get people into the store before you can start pyramiding sales by suggesting additional items they want.

4. Become known as the friendly home of the national brands. List the lines you display in every advertisement and mailing piece.

5. Invite people to come in to talk over their gardening problems with your experts and take advantage of national manufacturers' policies of sponsoring clinics in local nurseries or stores.

6. Close every conversation, advertisement, sign, or public talk with a

Another Prominent Nurseryman Reports On

NO-ROT BURLAP

The Rhode Island Nurseries
INCORPORATED
V. J. VANICEK, PRESIDENT
V. J. VANICEK, JR., VICE-PRESIDENT
J. C. BROWNELL, SECRETARY
NEWPORT, RHODE ISLAND
TELEPHONE VIKING 6 0721

November 26, 1958.

New Yorker Bag & Burlap Company
651 Marshall Street
Elizabeth
N. J.

Gentlemen:

We have been using your NO-ROT-burlap for some little time now and thought you might be interested in our opinion of this burlap.

We are, of course, only Wholesale but we find that our customers are asking for this type of burlap more and more, especially in the Fall of the year. It means that they can plant material in the Fall and not have to reburlap in the Spring. It certainly does represent a substantial saving.

We also use NO-ROT on plants we dig for our Wholesale Stand. We find that they last a great deal longer than regular burlap and require no reburlapping.

All in all we are very much satisfied with this burlap.

Very truly yours

The Rhode Island Nurseries Inc.
By V. J. Vanicek
President.

Users know how good it is!

For further information and immediate attention call COLLECT: ELizabeth 4-3115 or mail this coupon.

New Yorker Bag & Burlap Co.
651 Marshall St., Elizabeth, N. J.

Send sample and price list on No-Rot.

Mr. .....

Company .....

Address .....

City..... Zone... State.....

request for action. Potential customers want to be asked to buy.

7. Invite mail and telephone orders, as these make it easy for the potential customer to buy.

Correlated Efforts

Peter Costich, Hicks Nursery, Inc., Westbury, N. Y., illustrated his topic, "Correlated Promotion," by citing a recent case in point—the Hicks home garden clinic. This brought together in the Hicks nursery, on Jericho turnpike, representatives of the several garden supply and specialty companies in a carnival-like setting of cabana tents and attractive plants.

Previous flower shows, together with TV, newspaper and other advertising, brought crowds of gardeners who filled out information cards and consulted with the professional personnel of the supply companies on their garden problems. Recommended items were noted by the experts on slips, which were eventually presented at the Hicks sales office for filling as orders. En route, the visitors viewed the plant sales department and saw barbecue grills in action.

The correlated promotion worked well and raised sales for about three weeks.

Other instances of correlated promotion mentioned by Mr. Costich included the use of the Hicks barn for the flower show of the second district of the Federated Garden Clubs of New York State. Area-wide publicity cited included the Long Island garden show, which will be held this year from February 21 through March 1. It will be staged in the Island Garden Arena, West Hempstead, the theme being "New Fashions in Gardens." Mark Eaton, Glen Head, will be show manager. Many of the 95 competing retail nurseries on Long Island will take part. In 1958, 35,000 persons attended.

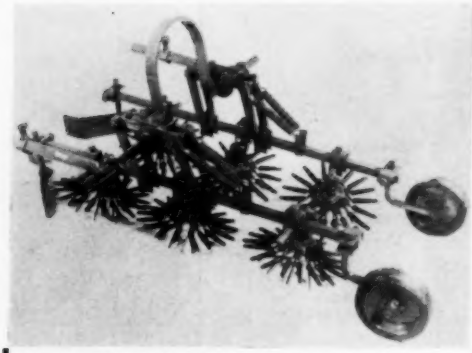
More area-wide promotion was recommended by Mr. Costich, who pointed out that a department store often makes a good place for a spring garden show. TV promotion was considered to be more effective than radio.

Harry Raben, the Garden-World, Flushing, spoke briefly in regard to the 1-stop nursery garden center and answered many questions asked by the audience. Mr. Raben cited several types of promotion effective in getting customers to a garden center and pointed out the need for parking facilities and for arranging stock items in logical sequence. Selling garden plants is largely a matter of selling promises, and a large picture on each package aids the customer in visualizing what he may expect. It is wise to have a picture on both sides of a package as customers tend to turn it around in handling.

Signs should tell whatever is not obvious and thus aid the customer

WOOD CHASE LABELS
FINEST QUALITY - PROMPT SERVICE
LABELS PRINTED TO ORDER
Write for samples, prices and discounts.
THE BENJAMIN CHASE CO.
DERRY VILLAGE, N. H.

DARLING'S "Rite in the Rain"
WATERPROOF
TREE AND PLANT LABELS
"Rite In the Rain" labels are not just another paper label. They are made of tough tagboard and chemically treated to make them waterproof. Ordinary pencil markings do not wash off. These are longer lasting yet low-cost labels. Millions are used every year by nurserymen.
Write for samples and prices.
J. L. DARLING COMPANY
BROWN'S POINT, TACOMA, WASH.



THE BUDDINGH INROW WEEDER

NEWEST METHOD IN WEED CONTROL CULTIVATES SAFELY BETWEEN EACH PLANT

WHY RISK YOUR CROP WITH CHEMICAL WEED CONTROL?

GROWERS REPORT safe and effective weed control, eliminating better than 75 per cent hand hoeing or weeding. Successfully used and approved by many of the leading nurseries, throughout the country, on all types of lined-out first through third-year stock. Also used in strawberries, gladioli, perennials, various types of vegetables, cotton, tobacco, etc.

- Used by rose and fruit tree growers to clean out understock for budding or grafting.
- Thoroughly cultivates and mulches soil around each plant at speeds of 3 to 5 m.p.h. without injury to plants.
- Prevents soil crusting. No root pruning.
- Keeps soil level around plants. No ridging.
- Can be used at once after plants have been set out.
- Works equally well on level or bedded plantings.
- It is operated from tractor seat.
- Easily attached to most front-mounted cultivator tractors.
- Multiple units can be used on 2-row tractors.

Write for descriptive literature and prices now.

P.S. Look for our display at the Illinois and Ohio conventions.

BUDDINGH INROW WEEDER CO.
Box 54 Dutton, Mich.

NOTE: COMPLETE CULTIVATION

THIS BIG HAND TRUCK

Will Save You Money

Handle heavy jobs easier, faster, with fewer men. Get into places otherwise inaccessible to heavy equipment, without damage to established lawns.

HANDLES 40-INCH BALL 1500 LBS.

Write for folder giving details and prices.

We Make 3 Sizes of Trucks

THE GARDEN SHOP, INC.
6315 W. 75th St.
OVERLAND PARK, KAN.
Phone Niagara 2-4838 (Kansas City, Mo.)

Built to Handle B&B Material

in choosing. Shelves at eye level and tables for stock also aid buyers in selecting their purchases. In a self-service operation, articles arranged in a logical sequence tend to continue a sale when it is once started. Wagons or pushcarts permit customers to follow food store practices acquired by the housewife in selecting more than she could carry in her hands.

Buying practices for the garden store operator are especially important. He should consider carefully before tying up capital in big-lot quantities, even if the price seems attractive. Discounts are worth taking and are often an easy way to get quick return on money.

TOWN TREE PLAN

A proposal offered by Peter B. Cascio, Peter Cascio Nursery, West Hartford, Conn., to restrict street tree plantings in the city to varieties of flowering crab apple was recently approved by Donald H. Blatt, West Hartford town manager. In accepting a gift of 100 flowering crab apples offered by Mr. Cascio to start the campaign, Mr. Blatt expressed approval of the nurseryman's suggestion that West Hartford attempt to establish itself as the "Apple Blossom Town." He requested the public works director to arrange for the planting of the 100 trees as soon as possible and to draft a revised planting program for the future.

Mr. Cascio suggested the flowering crab apple as the tree to give a blossom time personality to the town because of its hardiness, relative long life and wide range of available varieties. He offered not only to donate 100 crab apples a year to the town, but also to supply at cost any number of the trees that civic-minded individuals and organizations may care to donate to the city for public plantings.

In his initial proposal, Mr. Cascio suggested that individual streets be planted to one variety of flowering crab apple for mass effect and that a yearly festival could be staged at West Hartford at blooming time.

HORTON ADDITION

Purchase of the Fields Ridge Manor Nursery, Route 20, North Madison, O., by Horton Nurseries, Inc., Painesville, O., was announced recently by H. A. Horton, vice-president of the company. Previously owned by Earl J. Fields, the 65-acre nursery has a 1,700-foot frontage on Route 20, directly across the road from the main Ridge Manor Farm.

BOOKS — FOLDERS — HANGERS for Nurserymen

Better Fruits and Flowers PLATE BOOK

430 items illustrated in full color

96 pages and cover 8½ x 11 inches. This book designed for the Northeast and Central United States. Substantially bound with heavy cover. Covers ornamentals of all kinds and also fruits.

Each **$4.00**

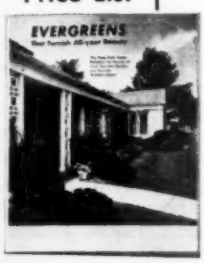
Write for Quantity Discounts and Price List

4 Popular Folders

Each folder 10¾ x 35 in., open, printed in full color.

EVERGREENS, ROSES, SHRUBS, ORNAMENTAL TREES

Each **25¢**



4 Wall Hangers

Size 25 x 38 in., printed in full color. Metal binding top and bottom, very substantial.

SHRUBS, EVERGREENS, ROSES, SHADE TREES

$3.00 Each

CORRECT PLANTING Methods

32-page pocket size book containing very complete information for all kinds of plants, well illustrated, helpful in preventing claims for dead stock.

Sample copy 10c

Cash with Order, Please.

A. B. MORSE CO. *Horticultural Printers* **St. Joseph, Mich.**

purchased by the Hortons in March, 1955. The new purchase will give Horton Nurseries a total of 1,300 acres in cultivation in Lake county.

TEXAS RULE RETRACTED

The Texas department of agriculture has temporarily rescinded its order of October 17 concerning the shipment of camellia plants from California to Texas, according to an announcement in the December bulletin of the California Association of Nurserymen. Until further notice, camellia plants do not have to be shipped bare root, nor is a camellia flower blight certification required, the C. A. N. bulletin states.

PLANT PROPAGATORS

[Continued from page 15]

lalandi. Pyracantha koidzumi (formosana) is the most widely grown species in the southeastern states.

Varieties Confused in Trade

Dr. deVos pointed out that, because of the difficulty of classifying pyracanthas, there is considerable confusion in the trade. He attributed this confusion to various factors, among which were the following: There is considerable seedling variation in plants grown from seeds; probably all the pyracanthas have the same chromosome number, making hybrids highly probable, and the color and size of the fruit varies according to cultural conditions under which the plants grow.

Summing up with an evaluation of the species, Dr. deVos listed the hardy varieties as being lalandi; Kasan, which is supposedly a heavier-fruiting form than lalandi, and Royali. Oxford is said to be more resistant to fire blight than most of the present varieties. It is believed to be a hybrid of Pyracantha angustifolia x P. crenata-serrata.

For the lasting quality of the fruit, Dr. deVos recommended Kasan and Victoria, but stated that this characteristic will vary according to temperature. A set of color slides used in the talk included many of the varieties having yellow fruit.

"Propagation of Pyracanthas in the Greenhouse and Mist Bench" was discussed by Judson Germany, Jr., Germany's Nursery, Fort Worth, Tex. Mr. Germany reported that the technique used in propagation of pyracanthas is no different from that used for other plants and that they are considered generally easy to

DOMESTIC BURLAP SQUARES

	Per Square
24x24 ins.	3¾c
28x28 ins.	4¾c
30x30 ins.	5¼c
32x32 ins.	5¾c
36x36 ins.	7½c
40x40 ins.	8½c

Please compare these prices with what you are currently paying. All covers are made from vacuum-cleaned, bright burlap bags, free of holes and perfectly uniform. Samples will be gladly mailed upon request.

HARRY STOLLER & CO.
30-40 Maple St. Chelsea 50, Mass.

PLANT MARVEL

"feed as you water"

Plant Marvel is a complete soluble plant food with 12-31-14 analysis. Used by leading agricultural colleges and horticulturists. Preferred plant food of African Violet enthusiasts. 8-oz. can retails for 80c—retailers pay $12.80 for case of 24. 1-lb. can sells for $1.35 — retailers pay $10.80 for case of 12.

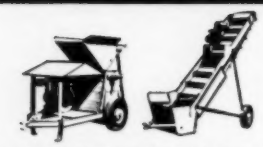
Plant Marvel Laboratories
622 W. 119th St. Chicago 28, Ill.

America's Favorite

W-W COMPOST GRINDERS & SOIL SHREDDERS

GRINDS
or SHREDS
or PULVERIZES
or MIXES
...and LOADS

ELEVATOR AND GRINDER CAN BE USED SEPARATELY



Model 4-EV with grinder and elevator detached so each can be used separately.

W-W's heavy-duty Model 4-EV Grinder-Shredder with elevator gives versatility plus for the nurseryman whose operation demands large capacity . . . yet who wants to save labor costs. Like all W-W machines, this model has interchangeable grinding screen and shredding bars. It lets you process organic matter — stalks, prunings — garbage, bones, for faster composting. You can also shred, grind, screen, or mix soil, compost, peat moss, hard manure, etc. And with this model you load it automatically on your truck or wagon after it's processed. The grinder and elevator have their own power and are easily detached so you can use them as separate machines. Sells for only $782.40 f.o.b. factory. Write for literature. Liberal financing can be arranged.

PORTABLE MODELS

Model A (right) with gas or electric power . . . $129.95 ($96.00 less power). Model 2-G with 2½-HP recoil starter engine . . . $189.50. f.o.b. Wichita.

W-W GRINDER CORP.

2957-F N. MARKET WICHITA 4, KANSAS

BE YOUR OWN BOSS!

Become a Landscape Specialist in Your Spare Time at Home!

American Landscape School's low-cost, home-study methods help you to become independent quickly. You learn the newest, most modern landscaping methods and trends. You become proficient in garden design, drafting, mapping and field work. You improve your knowledge of horticulture, construction, superintendence, salesmanship and office practices. Hundreds of graduates have increased their income, earned new prestige in their communities.

45 GENEROUSLY ILLUSTRATED LESSONS →

Nine valuable, up-to-date textbooks filled with new ideas! Thorough preparation in 8 to 12 months. 50 imprinted business cards, monthly letter, consultation service, dictionary FREE to all students! Drafting set given FREE with advance full payment. 43rd year. PRINT NAME AND ADDRESS IN COUPON FOR FREE BOOKLET.

AMERICAN LANDSCAPE SCHOOL

Dept. 219-A, 4040 42nd St.
DES MOINES 10, IOWA
Please tell me how I can become a successful landscape specialist. Send me free booklet.

Name.....

Address.....

City..... State.....

SHRUBS AND VINES FOR AMERICAN GARDENS, by Donald Wyman.
Planting guide for florists and nurserymen. $8.00.
American Nurseryman Chicago 4, Ill.

propagate. He recommended using either a greenhouse or an outdoor mist unit.

When using a greenhouse to propagate pyracanthas, one has better humidity control. It was pointed out that shading is necessary to control temperatures, but that too-heavy shading will reduce rooting. Most pyracantha cuttings can be taken from July until frost.

Medium Type Unimportant

Various media have been used for propagation of pyracanthas, but with little difference in results. The medium should provide good drainage and should hold the cuttings upright. Mr. Germany reported that his nursery is using sand that is changed each year.

Cuttings are taken from the side growth of pyracanthas and are usually 3/16 of an inch in diameter. Although larger cuttings will root, smaller cuttings are used for conserving space. Lower leaves are stripped, and the thorns are removed. Hormones are not necessary in the rooting of pyracanthas.

The greenhouse should be maintained at high humidity and high temperatures for a period of two or three weeks during the rooting time. Rooted cuttings are then potted in a mixture of one-third soil, one-third peat and one-third perlite and moved to shade for hardening off.

The use of the mist system for propagation of pyracanthas, it was reported, generally produces no fungus problems. It is a low-cost method of propagation and is the only one used for summer propagation at Germany's Nursery. Windbreaks of solid material, such as Transite, are used with either constant or intermittent mist—both are satisfactory for pyracanthas. Cuttings are placed in flats under an intermittent mist of one minute in five minutes, which is controlled by an automatic timer.

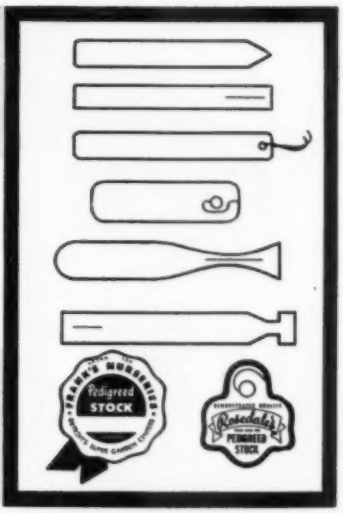
Breeding Research

Toru Arisumi, of the U. S. D. A. agricultural research service, Worthington, O., reported on "Breeding Objectives for the Improvement of Berberis and Mahonia." It was reported that both berberis and mahonia are large genera, and many of the species are susceptible to wheat rust and are not allowed, at the present time, to be grown in 19 states, being regulated by plant quarantines. The test work is restricted to the rust-resistant species. It was also reported that the chromosome number is the same in both genera and that crosses have been made between the two genera. Factors being

save time, money, and inconvenience get all your NURSERY LABELS from

the largest and most complete line of NURSERY LABELS in the WORLD

VINYLITE • WOOD • PAPER • ALUMINUM
PLAIN • PRINTED • SPECIAL TYPES & DESIGNS



CARSCALLEN *Nursery Label Company*

☆ write for sample and prices

65 W. UNION STREET • PASADENA, CALIF. • SYcamore 3-9464

worked upon are hardiness, evergreen character, fruiting and dwarfing. In closing, the speaker showed a series of slides depicting interesting species of berberis and mahonia that were not familiar to many of the members of the society. Some of the pictures were of extremely rare plants. This concluded the first morning session, with two papers still to be presented.

The moderator for the Thursday afternoon session was Stuart Nelson, experimental farms service, Ottawa, Ont., Canada. The general discussion was on "Greenhouse Management." The first paper was "Summer Propagation in the Fog House," by E. Stroombeck, Warner Nursery, Willoughby, O. Mr. Stroombeck reported that his firm had successfully used intermittent mist for several years and, on a visit to Holland in 1957, he became acquainted with a new fog unit being manufactured in Switzerland. It is a centrifuge type of unit producing small water particles of one to five microns, which act almost like a gas and penetrate throughout the entire house.

Aids Softwood Cuttings

Mr. Stroombeck said a polyethylene lining had been placed inside the greenhouse to seal in the fog and act as additional insulation. Rigidity of softwood cuttings is easily maintained under this fog condition. A medium of peat and perlite is kept on the dry side and loose. One can start plant propagation earlier in the spring with a fog unit, and it is easy to operate a fog house. The easy-to-root items are still propagated under intermittent mist, but all the difficult-to-root plants are handled in the fog system.

Mr. Stroombeck, in closing, said that the disadvantages of the fog system at the present time are the moving of rooted cuttings from the fog house and the chance of a power failure, which could be disastrous in case the fog machine were stopped for any length of time. The speaker had some interesting plants to show, and many of the nurserymen had an opportunity to visit and see this operation during the tour.

"Propagation—Dollars and Sense" was presented by Henry A. Weller, C. W. Stuart & Co., Inc., Newark, N. Y. Mr. Weller stated that dollars and sense are related to each other and put forth the question, "Do we know, actually, the cost of growing the different items in our nursery?" Mr. Weller outlined a good cost program in which all expenses from the time of taking the cuttings to the completion of the plant could be listed to determine if the plants were being profitably grown or if better ways should be developed to produce them.

One method of keeping down costs was the holding of rooted cuttings in cold storage at 34 degrees

BRODLEAF
Imported Holland
PEAT MOSS

Roots screened out
You get the best part — the Peat Flakes!

Genuine BOSKOOP **REEDMATS**

HOLLAND BURLAP SQUARES-3 Grades
- Boskoop
- Standard
- Film-embedded VIKING WRAPS

HALF MOON MFG. & TRADING CO.
90 West St., New York 6, N. Y.
Address all correspondence to:
Box 27, Plainfield, N. J. PL 5-8228

BURLAP
Various Sizes
Write for prices and samples.
STERLING BAG & BURLAP CORP.
41 Carolina St. Buffalo 1, N. Y.
Phone: CL. 2339

The plants and products written about and advertised in
FLOWER GROWER
THE HOME GARDEN MAGAZINE
over the last 43 years have helped make the nursery and garden industry a great part of American living.

KUNDE pruning knives for light, medium and heavy pruning. Request illustrated folder.

A. H. GUTBROD CO.
P. O. Box 96, IRVINGTON 11, N. J.

Restore Your Soil to Virgin Fertility—With
VITALOAM
LABORATORIES OF SOIL & PLANT RESEARCH, INC.
LANCASTER, OHIO

Viburnum tomentosum seedlings.

	100	1000
VIBURNUM TOMENTOSUM		
6 to 12 ins., S.	$10.00	$85.00
VIBURNUM SIEBOLDI		
6 to 12 ins., S.	10.00	85.00
VIBURNUM CASSINOIDES		
6 to 12 ins., S.	7.50	65.00
VIBURNUM DENTATUM		
6 to 12 ins., S.	7.50	65.00
VIBURNUM LANTANA		
6 to 12 ins., 2-yr., S.	10.00	85.00
12 to 18 ins., 2-yr., S.	15.00	125.00
VIBURNUM LENTAGO		
6 to 12 ins.	7.50	65.00
VIBURNUM OPULUS		
6 to 12 ins., S.	10.00	85.00
COTONEASTER DIVARICATA		
6 to 12 ins., S.	8.50	75.00
12 to 18 ins., S.	10.00	85.00
MAHONIA AQUIFOLIUM		
1-yr., S., selected	6.50	50.00
EUROPEAN MOUNTAIN ASH		
6 to 12 ins., S.	7.50	65.00
12 to 18 ins., S.	10.00	85.00
WASHINGTON HAWTHORN		
6 to 9 ins., S.	7.50	65.00
9 to 12 ins., S.	10.00	85.00
PRUNUS TOMENTOSA		
6 to 12 ins., S.	7.50	65.00
12 to 18 ins., S.	10.00	85.00
RHODOTYPOS SCANDENS		
6 to 12 ins., S.	7.50	65.00
SYRINGA VULGARIS		
6 to 12 ins., 2-yr., S.	7.50	65.00
SYRINGA VILLOSA		
6 to 12 ins., 2-yr., S.	7.50	65.00
PHOTINIA VILLOSA		
6 to 12 ins., 2-yr., S.	7.50	65.00
12 to 18 ins., 2-yr., S.	10.00	85.00
RED BARBERRY		
6 to 9 ins., S.		45.00

NEWPORT NURSERY CO.
Newport, Mich.

until planting time in the spring. This practice greatly reduced the cost and increased production, for it permitted two crops of cuttings to be rooted in the same bed area. Cuttings are placed in polyethylene bags for the storage treatment.

Weed control in the lining-out beds is extremely costly for most nurserymen, and while reporting on some of the newer and better materials, the speaker stated that six pounds of 10 per cent Chloro IPC per acre reduced the weeding problem nearly one third from what it had formerly been. Chloro IPC is selective and will not kill all weeds.

The use of mist in propagation has been greatly extended. In 1953 the firm was rooting approximately 5,000 cuttings under mist. At the present time, it is rooting nearly 80 times this number of cuttings, and 30 per cent of the cuttings are under mist. The use of perlite as a rooting medium offers a great deal of flexibility, and timing is much easier. Little regard is paid concerning hormones and the basal condition. In closing, Mr. Weller stated that being aware of the costs involved in plant propagation and doing something about that is more important than actually knowing about plant propagation.

A summary of the papers on various phases of plant propagation delivered during the remaining meeting sessions will be presented in the following issues of the American Nurseryman.

NEW YORK FIRM EXPANDS

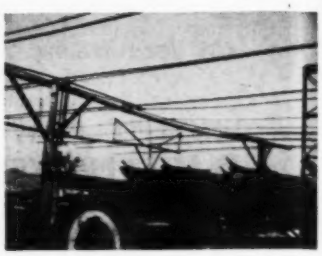
A new branch store was opened recently at South Farmingdale, L. I., N. Y., by the North Massapequa Nurseries, North Massapequa, L. I. Located one mile from the main store, the South Farmingdale branch has a 140-foot frontage on South Main street, according to Alfred S. Goldenberg, owner of the wholesale and retail nursery business. Manager of the branch operation will be Charles Frake, North Massapequa.

NEW site for Don's Nursery, Jacksonville, Fla., owned by Don Bryant, is at 7651 Beach boulevard.

OPENING of Heller's Nursery & Garden Center, Alvin, Tex., was held recently by W. L. and Martha Heller, Alvin.

ADDITION of an $18,000 mezzanine to the warehouse of the C. R. Burr & Co. Nursery, Manchester, Conn., will provide an additional 10,000 square feet of floor space.

FOG HAS A PRACTICAL USE IN ALL TYPES OF NURSERY OPERATIONS



GROWERS: Harden off tender, fresh-dug stock the natural way. No shading necessary. See photo above.

PROPAGATORS: Outdoor fogging is still the most economical propagation method.

GREENHOUSE humidification, for cooling and positive moisture content.

See our advertisement in alternate issues for details of equipment and write for free layouts and information.

Mist-O-Gation, Inc.
Dept. A Middletown, Del.

BOOKS ON PROPAGATION

Plant Propagation $7.50
By Mahlstede and Haber

Plant Propagation Practices $7.50
By James S. Wells

Propagation of Plants $6.95
By M. G. Kains and L. M. McQuesten

How to Increase Plants $3.50
By A. C. Hottes

Order from

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

Top-Quality
Dutch and Domestic
BURLAP SQUARES
TWINES
NURSERICANS
Write for our low prices and samples.

HALPERN BROS.
272 S. 2nd St., Philadelphia 6, Pa.

AND HOW THEY GREW!

An excellent growing season in southwest Iowa has resulted in a good supply of top-quality

SHRUBS in LARGER SIZES

This space does not permit a full listing but the following varieties are some of those in which we can offer quality stock in large sizes:

Amorpha fruticosa

Japanese Barberry

Redleaf Japanese Barberry

Callicarpa dichotoma

Cornus (alba sibirica and **amomum)**

Cotinus coggygria

Cotoneaster (acutifolia and **divaricata)**

Deutzia (Lemoine and **scabra)**

Euonymus fortunei radicans erecta

Forsythia (intermedia spectabilis, Lynwood Gold, ovata, Spring Glory and **suspensa fortunei)**

Kolkwitzia amabilis

Lonicera (Clavey's Compact Dwarf, fragrantissima, maacki Podocarpa, morrowi, tatarica grandiflora, tatarica rosea, tatarica sibirica and **Zabel)**

Philadelphus coronarius

Physocarpus opulifolius aureus

Prunus (glandulosa, tomentosa and **tomentosa Orient)**

Rhodotypos scandens

Rhus aromatica

Ribes alpinum

Spiraea, (arguta, billiardi, Froebel, thunbergi and **vanhouttei)**

Syringa (chinensis, villosa and **vulgaris purpurea)**

Viburnum (dentatum, lantana and **opulus sterilis)**

Weigela (florida, Newport Red, Vanicek and **wagneri Henderson)**

Inquiries about items not listed are invited. See our Winter Trade List for complete descriptions.

Write for special quotations on large quantities of a variety and grade.

Quality Stock
Personal Service
SINCE 1870

Phones 406 and 407

The Shenandoah Nurseries

SHENANDOAH, IOWA

PRE-STAKED JUNIPER GRAFTS

Select, carefully chosen understocks insure a strong positive graft union. Systematic control in all stages of production insures disease-free grafts. Eliminates culls and grade-outs.

Large, healthy scions are cut from carefully rogued stock blocks, precision fitted to the understock. Soil mix, pots, and benches are all steam sterilized to insure hygienic culture conditions.

Order Now For Spring Delivery

7 OUTSTANDING VARIETIES

MOUNTBATTEN
BLUE HAVEN
SILVER GLOW
CANAERT
HILLSPIRE
GLAUCA
DUNDEE

75¢ each
IN 100 LOTS
65¢ each
IN 1,000 LOTS

Orders for 300 or more take 1000 rate

Newly made grafts are plunged in temperature controlled beds – under glass – for the healing period. Hill's invite comparison of these superior quality Juniper Grafts with similar products advertised as "just as good".

NEW CUSTOMER SPECIAL INTRODUCTORY OFFER
$55.00 - GETS YOU - 75 DELIVERY PREPAID
Terms: Net – remittance with order

Pre-staked grafted liners are shipped in multiples of 25, in specially designed cartons.

SINCE 1855
EVERGREEN
SPECIALISTS

D. HILL NURSERY CO

DUNDEE, ILL. • PHONE HAzel 6-3451

Largest Evergreen Growers in America

XUM